



N42RF ERROR SUMMARY DISTURBANCE OVER LEEWARD ISLANDS



Flight ID: 080814H

<u>Sensor or system</u>	<u>Number or Name</u>
Inertial	INE1
Accelerometer	ACC1
Temperature Probe	TT1
Dew Point Probe	TDM2X (EdgeTech)
Static Pressure	PSFX
Dynamic Pressure	PQF1
Vert. Wind	RA159X
Constants File	n42_hur08v3.adc
Project Directory	/acdata/2008/hur08

Notes:

There was one data gap: 151341Z – 151349Z. No lag was observed between the two inertial outputs.

There were no liquid water sensors available for the flight.

Due to a data system failure onboard the aircraft at take-off, all horizontal and vertical wind output is erroneous until 154200Z.

The fuselage measured static pressure (PSF) and fuselage measured dynamic pressure (PQF1) outputs had erroneous data from 164100Z – 164400Z. The erroneous data for both sensors was removed using statistical techniques. From 194400Z – 194600Z PSF displayed erroneous data and it was removed using statistical techniques.

Measured dewpoint temperature #2 (EdgeTech)...TDM2...exhibited numerous time periods of erroneous data throughout the flight. During the following time frames: 173624Z – 173703Z, 173749Z – 173910Z and 210820Z – 210928Z the erroneous data was removed by substituting TDM3(Maycomm/TDL) output,

$$\text{TDM2} = \text{TDM3}$$

For 201542Z – 201617Z erroneous TDM2 data was removed and replaced using the following equation $TDM2 = TDM3 + 1.5$

For the following time frames erroneous TDM2 data was removed and replaced via using statistical techniques: 182600Z – 182615Z, 182624Z – 182635Z, 183247Z – 183255Z, 194104Z – 194130Z, 195118Z – 195126Z, 200536Z – 200554Z, 200634Z – 200701Z, 201155Z – 201203Z, 201211Z – 201219Z and 201336Z – 201352Z.

All other instruments worked optimally during the flight.

Seventeen (17) GPS dropsondes were deployed with 16 being good.
No tempdrop messages were sent to NHC.

	Takeoff 1502Z	Landing 2242Z
Aircraft Static Pressure	1007.7mb	1006.3mb
Corrected Tower Pressure	1007.5mb	1006.4mb

Flight Director: A. Barry Damiano (813) 828-3310 ext. 3073

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AOCWFF1

Flt ID: 080814H	From: TBPB	To: TBPB
Flt No: 08-051	Blk In: 2247Z	ATA: 2242Z
ETD: 1500Z	Blk Out: 1454Z	ATD: 1502Z
ETE:	Blk Time: 7:53 (7.9)	Flt Time: 7:40 (7.7)
Sponsor Org: EMC	Program: HURRICANE	Purpose: DIST OVER LEEWARD ISLANDS

AOC Personnel

AC: GIRIMONTE	Sys Eng:
CP: NELSON	Data Sys: PEEK PEEK
Nav: SIEGEL	Radar:
FE: BAST/WADE	GPS/BT: BOSKO/RASCO
FD: DAMIANO	Cld Phys:
Avionics: OLNEY	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
ABERSON	PM	HRED ↓
ROGERS	PM	
LEIGHTON	WORKSTATION WORKSTATION	
MURILLO	WORKSTATION	

Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #)

Bogus winds at 710 restart happy box 1512Z
 Used GPS blended alt ~~for real time~~
 in real time
 UH# 304.8

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AOCWF2

Fit ID: 080814H Time Off: 1502Z Time On: 2242Z

	A/C (Take-Off)	Wx Station (Take-Off)	A/C (Land)	Wx Station (Land)
Pressure	1007.7	29.95 1014	1006.3	29.92 1013

	Number	Data Disposition / Date / Quality
Fit Lvl Tapes	2	
Radar Tapes	1	
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes	17	16 good; 1 Fast fall 9 HRD & EMC

Video

	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					

Remarks

9 HRD

195116

OCEAN WINDS FLT #7 PQ= FUSELAGE PS= FUSELAGE INE=

A/C 42 YEAR 2006 - MONTH 2 - DAY 12 DATE RUN= 10 MAR

4166

210820 - 210924 TDM2 = TDM3

201542 - 201617 TDM3 + 165

201211-201219 above patch .35

201155 - 201203 above mound patch .50

200634 - 200801 diff mound patch .50

200536 - 200554 diff mound patch .60

194530 - 195025 diff mound patch .10

194104 - 194130 mound patch .90

183247 - 183255 mound patch .50

182624 - 182635 mound patch .50

182600 - 182615 mound patch .50

173749 - 173910 TDM2 = TDM3

173624 - 173703 TDM2 = TDM3

1944 - 1946 diff patch .30 for both

164215 - 164223 diff patch .70

164215 - 164215 mound patch .70

151341 - 151349

223503 - 224520

145804 - 150418

12H159 - 12H232 (176950)

12H159 for

12H159 for

12H159 for

12H159 for

12H159 for

12H159 for

12H159 for

12H159 for

2 - DAY 12

above patch .35

above mound patch .50

diff mound patch .60

diff mound patch .10

mound patch .90

mound patch .50

mound patch .50

mound patch .50

TDM2 = TDM3

TDM2 = TDM3

diff patch .30 for both

diff patch .70

mound patch .70

diff patch .70

diff patch .70

diff patch .70

diff patch .70

diff patch .70

diff patch .70

diff patch .70

diff patch .70

diff patch .70

diff patch .70

diff patch .70

diff patch .70

164460 - 164500

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080814H

Dark Bay

NOAA • AOC • SED
N42RF AVAPS DROP LOG

Project : Hurricane '08

Mission: WAVE Flight ID: 080814H

Take Off : 1502 Z Landing : _____ Flt Dir : DAMIANO Launcher S/N: _____

[illegible]

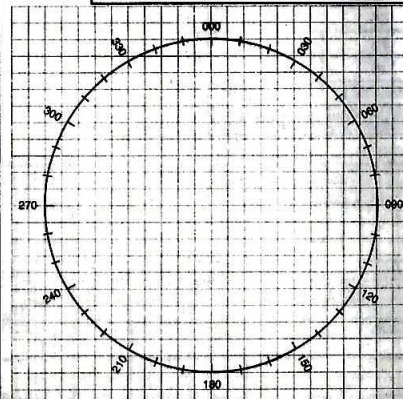
NO 4D
-F.F.

NO WINDS per
to drop - NO
LD

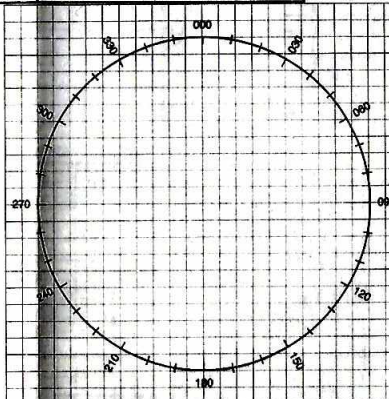
1754 6206 285/12 285/48mm

CLEARANCES			
FREQ	ALT	HDG	OTHER
			12 6 L turn
			555.0
			113.96
			884.6
			130.7
			134.3
			125.0

MISSION LOG



PAGE _____ **OF** _____



POSITION REPORT

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
THIS IS NOAA _____, 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 16 SOULS ON BOARD

- NATURE OF EMERGENCY

- ASSISTANCE DESIRED

- PILOT INTENTIONS

- WE HAVE ENDURANCE REMAINING

[illegible]