

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

AOCWF1

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	I-TRD ↓
ROGERS	PM	
LEIGHTON	WORKSTATION WORKSTATION	
MURILLO	WORKSTATION	

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

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

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

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



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,

TDM2 = 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

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 mound patch .70

164215 - 164223 mound patch .70

164215 - 164223 mound patch .70

164215 - 164223 mound patch .70

164215 - 164223 mound patch .70

164215 - 164223 mound patch .70

164215 - 164223 mound patch .70

164215 - 164223 mound patch .70

164215 - 164223 mound patch .70

164215 - 164223 mound patch .70

164215 - 164223 mound patch .70

164215 - 164223 mound patch .70

164215 - 164223 mound patch .70

164215 - 164223 mound patch .70

164460 - 164470

194551 - 194553

194449 - 194454

PSF

RA159

PAF1

PSF

TDM2

TT1

AC1

INE1

151341 - 151349

Dark Bay

080814H

NOAA • AOC • SED
N42RF AVAPS DROP LOG

Project : Hurricane '08

Mission: WAVE Flight ID: 080814H

Flight ID: 080814H

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

[illegible]

NO 4D
-F.F.

NO WINDS per
to drop - NO
LD

1754

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 _____ TRU/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 _____