

U.S. Dep't. of Commerce / OMAO / NOAA / Aircraft Operations Center

FLT ID: 20130930H1	From: KMCF	To: KMCF
FLT #: _____	Blk In: 1933 Z	Lnd Time: 1926 Z
ETD: 1800 Z	Blk Out: 1747 Z	T/O Time: 1756 Z
ETE: _____	Total Blk: 1:46 (1.8)	Total Flt: 1:30 (1.5)
Sponsoring Org: AOC	Program: PMM (SEB)	Purpose: EQUIPMENT TEST

AOC Flight Crew

Aircraft Commander: NELSON	SSA: BOSKO
Co-Pilot: KIBBEY	AVAPS: GREENE GREENE
Navigator: SIEGEL	Scientists: _____
Flight Eng: KLIPPEL	Scientists: _____
Flt Director: DANTANO	Scientists: _____
SEB: HILL	Scientists: _____

Crew Chief: _____ Visitors: _____ / _____ /

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1014.3	29.96 (1014.0)	1013.3	29.93 / 1013.0

AS REQUIRED BY ORM	YES / NO	REMARKS
VOLCANIC ASH	☒	
SCIENCE MISSION WITHIN BOUNDARY LAYER	☒	
LACK OF PRECIPITATION	☒	
RELATIVE HUMIDITY AT OR ABOVE 80%	☒	
LARGE AIR-SEA TEMPERATURE GRADIENT	☒	
HIGH SURFACE WINDS	☒	
LONG FETCH AND/OR DURATION OF SFC WIND	☒	
SEA SALT ACCRETION FORECAST	☒	
SEA SALT ACCRETION OBSERVED	☐	

Dropsondes	Good: _____	Bad: _____	Sent: _____
AXBT	Good: _____	Bad: _____	Sent: _____

List other data sources in Remarks section

Remarks (Storm VDM Identifier, Mission ID, Fix Times)	Fix #	VDM Ob Num	Fix Time / SLP
Storm Number Identifier (VDM): (ie: AL072012)			
TCPOD/WSPOD Mission ID: (ie: NOAA2 2418A SANDY)			

Remarks:

30 SEP 00Z SST 29°C **TDM 2/3** **2640' 83W IP**

PMM **Too Cool**

1013.84 **UATSLA** **TPM 1 1805Z**

1736Z **Cabin door open** **bad**

1012.6 land

93°F (28.5°C)



N42RF ERROR SUMMARY PRE-ARCTIC FLUX TEST FLIGHT



Flight ID: 20130930H1

<u>Sensor or system</u>	<u>Number or Name</u>
INE (for wind derivation)	INE1
Accelerometer	AccZfilterI-GPS.1
Temperature Probe	TTM.1
Dew Point Probe	TDM.1
Static Pressure	PSM.2
Dynamic Pressure	PQM.2
Vert. Wind	GPS.3 (Novatel)
Project Directory	/acdata/2013/MET/20130930H1

Notes:

There were no data gaps.

The measured (TDM.1) Buck dewpoint temperature displayed erroneous values during the following time frame: 180045Z – 180148Z. The erroneous values were replaced via direct substitution using the Port City (TDL...TDM.3) dewpoint temperature values as a reference,

$$TDM.1 = TDM.3 + 10.5$$

Also during the time periods 180900Z – 181200Z and 182800Z - 183200Z the measured Buck (TDM.1) dewpoint temperature displayed erroneous values that were manually removed and replaced with Port City TDL....TDM.3) dewpoint values using statistical techniques with a patch value of 0.20 and 0.50, respectively.

During the flight there were instances where dewpoint temperature values exceeded derived ambient temperature values resulting in humidity values above 100%. These situations occurred during precipitation events.

All other instrumentation worked optimally.

SPECIAL NOTE!!! The variable names DPJ_GSZ, DPJ_ASZ and DPJ_WSZ in the netCDF file represent vertical ground speeds, vertical air speeds and vertical wind speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

Dropsondes deployed 1; 1 good; 1 message sent to NHC.

AXBTs deployed 1; 1 good; 1 message sent to NHC.

Takeoff(1756Z) Landing(1926Z)

Aircraft Static Pressure	1014.4mb	1013.3mb
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Corrected Tower Pressure	1014.0mb	1013.0mb
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Flight Director: A. Barry Damiano (813) 828-3310 ext. 3073

20130920 H1

INE 7

1753-1931

PS 4 mlt diff at T/O

~~3 mlt diff at Land~~

PSM T/O 175505-175526

PSM.1 1010.54

~~VAISALA~~
1013.84

PSM.2 1014.36

Land

192750-192726

PSM.1 1008.08

VAISALA

PSM.2 1013.30

1012.6

19382

1809-1812 manual

180918-181045 diff

1828-1832 manual

.20 patch

182824-183210

.50 patch

1800-1802

180045-180148 offset 10.5

more. furlong. gov

Flight ID 20130930H1

Flight Director

1) AMI AND

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Mission ID W5XWXA

Storm THE FISH

[illegible]

NOAA • AOC • SED N42RF AVAPS DROP LOG Lead Tech: Joe Bosco

Project: Hurricane 2013 Mission: 11 Flight ID: 2013-09-30 #1
 Take Off: 1756Z Landing: 1926Z Flt Dir: B. AMIANU

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	112 545 175	1	Ø	1823	JG	AOC	(pmm)	OK
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
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