

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

FLT ID: 20140126H1	From: CYHZ	To: CYHZ
FLT #: 0WW1	Blk In: 18:15:30 Z	Lnd Time: 18:11:27 Z
ETD: 26/12 Z	Blk Out: 115107 Z	T/O Time: 12:03:02 Z
ETE: 26/19	Total Blk: 6.40	Total Flt: 6.12
Sponsoring Org: NESDIS	Program: 0WW	Purpose: South Sat overpass

AOC Flight Crew

Aircraft Commander: LCDR Kibbey	SSA: Bosko
Co-Pilot: LCDR Kerns, LCDR Didia	AVAPS: Nernam
Navigator: CDR Gallagher	Scientists: Paul Chang
Flight Eng: Lalonde, Darby	Scientists: Zorana Yelenak
Flt Director: Sears, Holmes	Scientists: Joe Sapp
SEB: Lynch	Scientists: Mirah Baker
Crew Chief: Smith	Visitors: /

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure				

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	3	Good: 3	Bad: 0	Sent: 0
AXBT	2	Good: 2	Bad: 0	Sent: 2

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:

overpass: 1332 ✓ - Passag all went nearly as scheduled
1425 ✓ - Sapp had problems w/ equipment
1615 ✓ - m back at plane.

60 48



N42RF ERROR SUMMARY

Winter Ocean Vector Winds

26 January 2014



Flight ID: 20140126H1

Sensor or system

Static Pressure Probe
Dynamic Pressure Probe
Total Temperature Probe
Dewpoint Temp. Probe
Vertical Accelerometer
Altimeter
INE Selection
Flight Directory

Number or Name

PSM.2
PQM.2
TTM.1
TDM.2
AccZfilterI-GPS.1
AltIGPS.3
INE 1
acdata/MET/2014/20140126H1

Local Met Data:

Aircraft Static Pressure
Tower Pressure (corrected)

Takeoff (1203Z)

969.8mb
970.4mb

Landing (1811Z)

977.3mb
976.9mb

Notes:

There were no data gaps.

On approach, data from TDM.2 began to oscillate. During the oscillations from 17:55:24Z to 18:08:50Z, the values for TDM.2 were replaced with values from TDM.1 via direct substitution.

During the flight there were instances during heavy precipitation where the calculated ambient dewpoint temperature exceeded the calculated ambient temperature resulting in relative humidity values greater than 100%.

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.

Expendable Type	Number deployed	Number good	Number of messages transmitted
GPS dropwindsonde	3	3	0
AXBT	2	2	2

Flight Director:
Phone #:

Ian Sears
(813) 828-3310 ext. 3039

Project: Hurricane 2013 Mission: Drums Woods 1 Flight ID: 20130726Take Off: 1203ZLanding: 1811ZFlt Dir: S

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
BT 12 1	111 955 073	1	0	133513	JW	NEADS		✓
2	114 525 083	2	0	142515	JW	NEADS		✓
BT 16 3	114 725 249	3	-4	161518	JW	NEADS		✓
4	111 755 361	4	2.5					
5								
6								
7								
8								
9								
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32								
33								
34								

1335
1425
1615

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
35								
36								
37								
38								
39								
40								
41								
42								
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57								

Drop Station Operator Notes

Charge \$\$ To Options: AOC, NWS, HFIP, NESDIS, or HRD ONLY – Do not use accounting codes!!!

AVAPS Pre-Flight Check:

- If time-permits, verify cabin pressure sensor w/ lab standard
- Start AVAPS., then start Soundings and set the Project Name and full Flight ID (example 20110823h2).
- Update the Frequency band allocation as required:
Band A - W53rd, Band B - N42RF, Band C - N43RF, Band D - N49RF, Band E - not allocated
- Perform a prelaunch check on each channel, look for reasonable data and no CRC error status lights. Verify data is available on Remote AVAPS at the FD Station, then terminate the sonde by selecting **Abort** to cancel the sonde initialization. Verify the AVAPS Data mission folder has been created.

AVAPS Launch:

- Select a sonde frequency in the Green band and away from other sondes
- Enter sonde pressure error offset if 0.4mB or greater
- Select "begin data collection" and verify good data (including Winds) prior to putting sonde in launch tube
- Cut off about ½ of ribbon, Unwind ribbon and flip the screen, Re-wind ribbon, Use orange tape to make a pocket at end of ribbon
- Loosen ribbon and extend end of ribbon to near, but not over, the sensor end of the sonde
- Place the sonde in the launch tube, sensor arm up, with the power pin socket facing starboard
- Verify the sonde is actively tracking GPS data prior to launch and no Early Launch detect

- Icing
- turbulence → vertical winds
- wave / ditch heading
- optical depth?
- VOLCANIC ASH ^{WEX}
- SEA SALT

INDIVIDUAL CRITERIA

- PATTERN } - + HAZARDS
- FIELD WX.
- QUICK OUTLOOK FOLLOW ON

~~✗~~

CYQM - MONCTON

CYEX - GREENWOOD

KBGZ - BANGOR

CYQX - GANDER

CYPT - ST JOHNS

CYST - STEPHENVILLE

210 16 G 27

8 mvis -RA

OVC005

TAF →

20012 G 22

2 mvis -RA
5 m

OVC 030

-SNRA

BKN 020

1330 Z

39°N 60°W

Combo



