

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

FLT ID: 20140204H1	From: CYHZ	To: CYHZ
FLT #:	Blk In: 1805 Z	Lnd Time: 1802 Z
ETD: 1100 Z	Blk Out: 1022 Z	T/O Time: 1027 Z
ETE: 2000	Total Blk: 7.7	Total Flt: 7.6
Sponsoring Org: NESDIS	Program: Ocean Winds	Purpose: Sat derived wind speed verification

AOC Flight Crew

Aircraft Commander: LCDR Kibbey	SSA: Basko
Co-Pilot: LCDR Kerns / LCDR Didier	AVAPS: Newnam /
Navigator: CDR Gallagher	Scientists: P. Chang
Flight Eng: Dorby / Calonde	Scientists: Z. Telenak
Flt Director: Seers / Holmes	Scientists: J. Sapp
SEB: T. Lynch /	Scientists: M. Baker

Crew Chief: Crooch (not flying)	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:

- Science ends @ 1613Z
- last Revo sent @ 1635Z



N42RF ERROR SUMMARY

Winter Ocean Vector Winds

04 February 2014



Flight ID: 20140204H1

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.2X
PQM.2
TTM.1
TDM.2
AccZfilterI-GPS.1
AltIGPS.3
INE 1
acdata/MET/2014/20140204H1

Local Met Data:

Aircraft Static Pressure
Tower Pressure (corrected)

Takeoff (1027Z)

1006.4 mb
1006.6mb

Landing (1803Z)

1007.4mb
1007.8mb

Notes:

There were no data gaps.

Data from PSM.2 spiked for two seconds from 14:08:39Z -14:08:40Z. During the spike, the values for PSM.2 were replaced with values from PSM.1 via the equation below.

$$\text{PSM.2X} = \text{PSM.1} + 5.3$$

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

NOAA • AOC • SED N42RF AVAPS DROP LOG

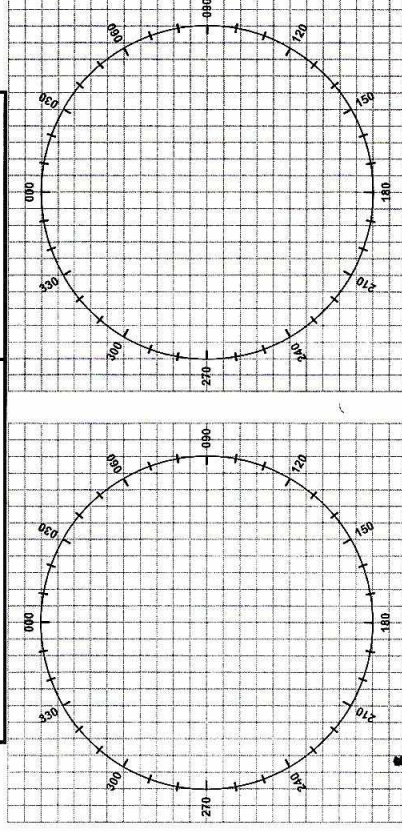
Lead Tech: Joe Bosco

 Project: Hurricane 2013 Mission: Green Wind Study 4 Flight ID: 2013-2014 41
 Take Off: 1037Z Landing: 1802Z Flt Dir: Following / Severe

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	112 815 054	1	.4	125606	JUN	NEEDS		✓
2	114 425 233	2	0	135007	JUN	NEEDS		✓
3	114 425 044	3	-4	145001	JUN	NEEDS		✓
4	114 425 250	4	0					
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1207Z
 1351Z
 1491Z
 1501Z

MISSION LOG	PAGE ____ OF ____
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[illegible]

PAGE ____ OF ____

6. NEXT POSITION

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:

- PILOT INTENTIONS

- WE HAVE _____ ENDURANCE REMAINING

[illegible]