

U.S. Dep't. of Commerce / OMAO / NOAA / Aircraft Operations Center					
FLT ID: 20140213H1		From: CYHZ		To: CYHZ	
FLT #:		Blk In: 1902 Z		Lnd Time: 1854 Z	
ETD: 1230 Z		Blk Out: 1203 Z		T/O Time: 1211 Z	
ETE: 2000 Z		Total Blk: 8.0		Total Flt: 6-7	
Sponsoring Org: NESDIS		Program: Ocean winds #6		Purpose: verify sat derived wind measurements	
AOC Flight Crew					
Aircraft Commander: LCDR Kibbey			SSA: Bosko		
Co-Pilot: LCDR Karns, LCDR Didier			AVAPS: Newman		
Navigator: CDR Gallagher			Scientists: P. Chang		
Flight Eng: Derby, Lalonde			Scientists: E. Jelenak		
Flt Director: Holmes, Sears			Scientists: J. Sapp		
SEB: Paul			Scientists: M. Baker		
Crew Chief: Crouch (not visitors) [signature] Alweiss					
A/C - Takeoff		Wx Station - Takeoff		A/C - Land	
Pressure				Wx Station - Land	
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 ~ 45 kts		☒			
LONG FETCH AND/OR DURATION OF SFC WIND		☒			
SEA SALT ACCRETION FORECAST		☒			
SEA SALT ACCRETION OBSERVED		☒			
Dropsondes	4	Good: 4	Bad: 0	Sent: 0	
AXBT	4	Good: 4	Bad: 0	Sent: 4	
Remarks (Storm VDM Identifier, Mission ID, Fix Times)				VDM Ob Num	Fix Time / SLP
Storm Number Identifier (VDM): (ie: AL072012)					
TCPOD/WSPOD Mission ID: (ie: NOAA2 2418A SANDY)					
Remarks:					



N42RF ERROR SUMMARY

Ocean Winds Flight

13 February 2014



Flight ID: 20140213H1

Sensor or system

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

Number or Name

PSM.2X
PQM.2
TTM.1
TDM.2X
AccZfilterI-GPS.1
AltIGPS.3
1
PDALPHA.1
PDBETA.1
PQALPHA.1
PQBETA.1
acdata/MET/2014/20140213H1

Local Met Data:

Aircraft Static Pressure
Tower Pressure (corrected)

Takeoff (1211Z)

1017.4 mb
1017.9 mb

Landing (1854Z)

1008.7 mb
1009.3 mb

Notes:

The data system required four separate restarts over the course of this mission. These restarts generated 4 discrete data files, which were merged into 1 common file and quality controlled to ultimately generate a "ABCDXC.nc" file. See "gap report" for the explicit time gaps associated with the data system restarts. For the merged file, TDM.2 (Edgetech) was more representative than TDM.1 (Buck) and therefore was used as the primary dewpoint temperature source for the entire mission. However, TDM.2 had two temporal windows where the data was not representative and required a manual correction. Specifically, TDM.2 was manually corrected 17:49:26Z – 17:49:50Z and 18:16:30Z – 18:40:00Z. Additionally, the static pressure sensor selected as the source for this mission was PSM.2 (wingtip static pressure probe). However, PSM.2 had a brief instance near the takeoff time where it spiked. Specifically, this spike occurred between 12:11:25Z and 12:11:29Z and it was manually corrected to remove the unrealistic data.

Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

SPECIAL NOTE!!! The variable names dpj_wgs, dpj_was, and dpj_wz in the netCDF file represent vertical ground, vertical air, 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	4	4	0
AXBT	4	4	4
Test Sondes	0	0	0

Flight Director:
Phone #:

Mike Holmes
(813) 828-3310 ext. 3140

NOAA • AOC • SED N42RF AVAPS DROP LOG

Lead Tech: Joe Bosco

Project: Hurricane 2013 Mission: Oreca Winds 14 Flight ID: 20140213H1Take Off: _____ Landing: _____ Flt Dir: Holmes / Sours

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	114 325 170	1	-0.5	1405	SCP	NESDIS		✓
2	114 335 094	2	0	1452	SCP	NESDIS		✓
3	114 425 246	1	-0.4	1617	SCP	NESDIS		✓
4	112 815 178	1	0	1725	SCP	NESDIS		✓
5	114 425 247	1	-0.7	1758	SCP	NESDIS		✓
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								

1405 1452 1617 1725
C C C C

MISSION LOG	PAGE ____ OF ____
-------------	-------------------

MISSION LOG

POSITION REPORT

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:

MAYDAY. MAYDAY. MAYDAY.

THIS IS NOAA . NOAA

- POSITION _____ N / S _____
E / W AT _____

- HEADING	TRUE/MAG
1.0	1.0
2.0	2.0
3.0	3.0
4.0	4.0
5.0	5.0
6.0	6.0
7.0	7.0
8.0	8.0
9.0	9.0
10.0	10.0
11.0	11.0
12.0	12.0
13.0	13.0
14.0	14.0
15.0	15.0
16.0	16.0
17.0	17.0
18.0	18.0
19.0	19.0
20.0	20.0
21.0	21.0
22.0	22.0
23.0	23.0
24.0	24.0
25.0	25.0
26.0	26.0
27.0	27.0
28.0	28.0
29.0	29.0
30.0	30.0
31.0	31.0
32.0	32.0
33.0	33.0
34.0	34.0
35.0	35.0
36.0	36.0
37.0	37.0
38.0	38.0
39.0	39.0
40.0	40.0
41.0	41.0
42.0	42.0
43.0	43.0
44.0	44.0
45.0	45.0
46.0	46.0
47.0	47.0
48.0	48.0
49.0	49.0
50.0	50.0
51.0	51.0
52.0	52.0
53.0	53.0
54.0	54.0
55.0	55.0
56.0	56.0
57.0	57.0
58.0	58.0
59.0	59.0
60.0	60.0
61.0	61.0
62.0	62.0
63.0	63.0
64.0	64.0
65.0	65.0
66.0	66.0
67.0	67.0
68.0	68.0
69.0	69.0
70.0	70.0
71.0	71.0
72.0	72.0
73.0	73.0
74.0	74.0
75.0	75.0
76.0	76.0
77.0	77.0
78.0	78.0
79.0	79.0
80.0	80.0
81.0	81.0
82.0	82.0
83.0	83.0
84.0	84.0
85.0	85.0
86.0	86.0
87.0	87.0
88.0	88.0
89.0	89.0
90.0	90.0
91.0	91.0
92.0	92.0
93.0	93.0
94.0	94.0
95.0	95.0
96.0	96.0
97.0	97.0
98.0	98.0
99.0	99.0
100.0	100.0

-AT KTS TRUE/INDICATED

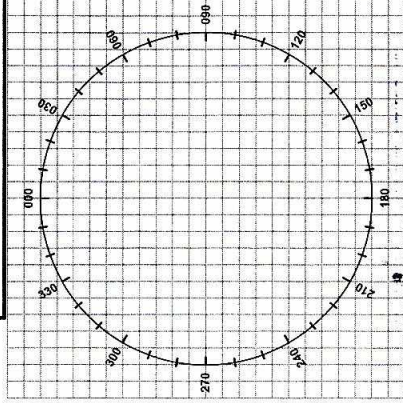
- FLIGHT LEVEL OR ALTITUDE

- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD

- NATURE OF EMERGENCY

- ASSISTANCE DESIR

- PILOT INTENTIONS

[illegible][illegible]

50.1 / 44.5 / 34.4 / 24.4