

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

FLT ID: 20140218H1	From: CYHZ	To: CYHZ
FLT #:	Blk In: 1959 Z	Lnd Time: 1955 Z
ETD: 1230 Z	Blk Out: 1208 Z	T/O Time: 1213 Z
ETE: 2000 Z	Total Blk: 7.8 hrs	Total Flt: 7.7 hrs
Sponsoring Org: NESDIS	Program: Ocean Winds	Purpose: verify sat derived wind over N. Atlantic

AOC Flight Crew

Aircraft Commander: Kibbey	SSA: Basko
Co-Pilot: Kerns 1 Didier	AVAPS: Newnam 1
Navigator: Gallagher 1	Scientists: P. Chang
Flight Eng: Darbu 1 Lalonde	Scientists: M. Baker
Flt Director: Holmes 1 Sears	Scientists: J. Sapp
SEB: Paul 1	Scientists:

Crew Chief: Crouch (not flying) Visitors: J. Sienkiewicz 1

	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	✓	

U:ropsondes 4	4	Good: 4	Bad: 0	Sent: 0
AXBT 2	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:			

NOAA • AOC • SED N42RF AVAPS DROP LOG

Lead Tech: Joe Bosco

Project: Hurricane 2013 Mission: Ocean Winds Winter #9 Flight ID: 20131211

Take Off: Landing: Flt Dir: 1400Z / 1500Z

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	114 325 067	1	Ø	1456	SCP	NEEDS		✓
2	114 325 034	1	Ø	1520	SCP	NEEDS		✓
3	114 335 045	1	Ø	1608	SCP	NEEDS	temp high	✓
4	114 335 025	1	Ø	1654	SCP	NEEDS		✓
5	114 325 043	1	-0.4	1710	SCP	NEEDS		✓
6								
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9								
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1520Z Ball water
1608Z Ball water



N42RF ERROR SUMMARY

Ocean Winds Flight

18 February 2014



Flight ID: 20140218H1

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.2
PQM.2
TTM.1
TDM.1X
AccZfilterI-GPS.1
AltIGPS.3
1
PDALPHA.1
PDBETA.1
PQALPHA.1
PQBETA.1
acdata/MET/2014/20140218H1

Local Met Data:

Aircraft Static Pressure
Tower Pressure (corrected)

Takeoff (1213Z)

1011.2mb
1010.5 mb

Landing (1955Z)

1008.3mb
1008.5mb

Notes:

The measured Dewpoint Temperature from the EdgeTech sensor (TDM.2) recorded exceptionally high temperature shortly after takeoff. Specifically, the dewpoint temperature exceeded the calculated ambient temperature resulting in relative humidity values greater than 105%. To mitigate these erroneous data, TDM.2 was manually corrected between 12:01:00Z and 12:06:00Z. In the ".A" file, there were also small (1 to 5 second) gaps in data noted during the period between 19:08:00 and 19:10:00 for the following parameters: HT, IAS, TA, TT.c, UWZ, WS, and WD. However, after post processing, these missing data were not present in the ".AXC" file.

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	2	2	2
Test Sondes	0	0	0

Flight Director:
Phone #:

Mike Holmes
(813) 828-3310 ext. 3140

04 130637Z 041000 A300 1400

CLEARANCES			
FREQ	ALT	HDG	OTHER

MISSION LOG

POSITION REPORT

1. POSITION

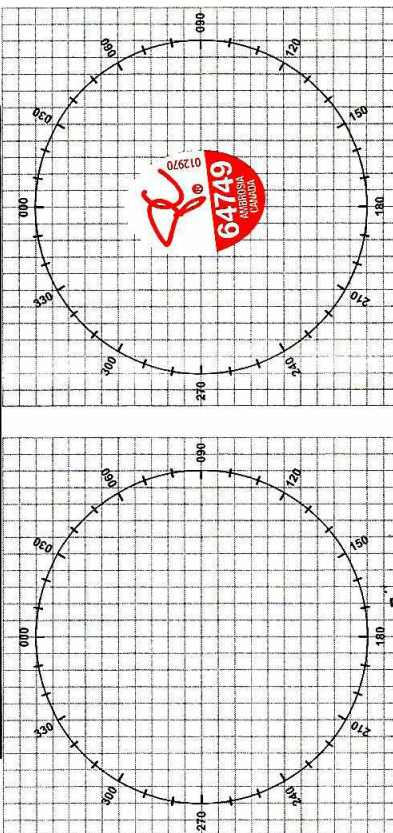
2. TIME

3. ALTITUDE

4. NEXT POSITION

5. ETA

6. NEXT POSITION



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

- POSITION N / S E / W AT Z

- HEADING TRUE/MAG

- AT KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE

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

- NATURE OF EMERGENCY

- ASSISTANCE DESIRED

- PILOT INTENTIONS

- WE HAVE ENDURANCE REMAINING

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	VAR +E=>	TH	DR +R=>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
10:00	A	45-07.8	062-59.5	-	45-07.8	-	180	058	80	066	237	349	40	180	252	104	27	734	1254	
12:00	A	45-07.8	062-59.5	-	45-07.8	-	180	058	80	066	237	349	40	180	252	104	27	734	1254	
13:00	A	47-15.3	056-10.4	+1.4	47-15.3	+1.4	190	054	80	067	249	338	68	190	306	600	180	750	1410	
14:00	A	48-42.2	049-50.8	+1.8	48-42.2	+1.8	180	073	40	069	242	306	20	70	230	511	58	120	1440	
15:00	A	51-24.6	047-23.9	+1.2	51-24.6	+1.2	190	039	60	045	278	302	23	70	230	511	41	112	1500	
16:00	A	51-56.6	046-00.8	+1.8	51-56.6	+1.8	190	012	70	019	279	205	28	80	225	544	22	706	1600	
17:00	A	49-31.6	048-31.6	+1.6	49-31.6	+1.6	180	242	60	236	213	288	27	80	230	511	115	732	1752	
18:00	A	47-50.9	047-49.6	+1.2	47-50.9	+1.2	190	264	160	249	278	320	90	8200	318	140	412	727	1947	
19:00	A	45-53.4	045-52.9	+1.5	45-53.4	+1.5	180	250	50	245	276	276	45	8200	311	140	107	733	1953	
19:55	1400																			
19:57	1400																			

100.37