

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

FLT ID: 20140220H1	From: CYHZ	To: KMLF
FLT #:	Blk In: 2312 Z	Lnd Time: 2303 Z
ETD: 1400 Z	Blk Out: 1344 Z	T/O Time: 1350 Z
ETE: 2200	Total Blk: 9.4hrs	Total Flt: 9.21
Sponsoring Org: MESDIS	Program: Ocean Winds	Purpose: verify sat derived winds

AOC Flight Crew

Aircraft Commander: K. B. 667	SSA: Boshko
Co-Pilot: Kerns, Didier	AVAPS: Newnam
Navigator: Gallagher	Scientists: P. Chang
Flight Eng: Darby, LaFonde	Scientists: E. Jelenak
Flt Director: Holmes, Sears	Scientists: J. Sapp
SEB: Paul	Scientists: M. Baker
Crew Chief: Crouch	Visitors: 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	✓	

Dropsondes 11	6 x mini's	3	3	Sent: 0
	5 x sands	Good: 5	Bad: 0	
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:			

NOAA • AOC • SED N42RF AVAPS DROP LOG

Lead Tech: Joe Bosco

Project: Hurricane 2013 Mission: Ocean WeatherFlight ID: 20140720011

Take Off: _____

Landing: _____

Flt Dir: Halmis

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	123 355 082	1	Ø	1435	SCP	AOC	No Launch Detect	X
2	124 555 222	2	Ø	1435	SCP	AOC		✓
3	130 445 065	3	Ø	1435	SCP	AOC		✓
4	130 635 019	4	Ø	1436	SCP	AOC		✓
5	124 615 270	5	Ø	1436	SCP	AOC	Foot Fall	X
6	124 435 255	6	Ø	1436	SCP	AOC	No Launch Detect	X
7	114 325 036	1	Ø	1524	SCP	NESDIS		✓
8	114 325 055	1	Ø	1603	SCP	NESDIS		✓
9	114 335 035	1	-0.4	1705	SCP	NESDIS		✓
10	114 335 034	1	-0.7	1720	SCP	NESDIS		✓
11	114 425 021	1	Ø	1731	SCP	NESDIS		✓
12								
13								
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30								
31								
32								
33								
34								

1524
1705
1732 Censor

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
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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



N42RF ERROR SUMMARY

Ocean Winds Flight (Ferry Home)

20 February 2014



Flight ID: 20140220H1

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/2014/20140220H1

Local Met Data:

Aircraft Static Pressure
Tower Pressure (corrected)

Takeoff (1350Z)

987.8mb
988.4mb

Landing (2303Z)

1017.6mb
1017.9mb

Notes:

The measured Dewpoint Temperature from the Buck sensor (TDM.1) had periods during the descent into MacDill AFB, FL where erroneous values were recorded. Specifically, the dewpoint temperature exceeded the calculated ambient temperature resulting in relative humidity values greater than 105%. To mitigate these erroneous data, TDM.1 was manually corrected between 22:51:00Z and 23:02:00Z. There were also small gaps in data noted in AccZfilterI-GPS.2. These gaps were not present in AccZfilterI-GPS.1, so AccZfilterI-GPS.1 was selected for use to derive 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	5	5	0
AXBT	2	2	2
Test Sondes	6	3	0

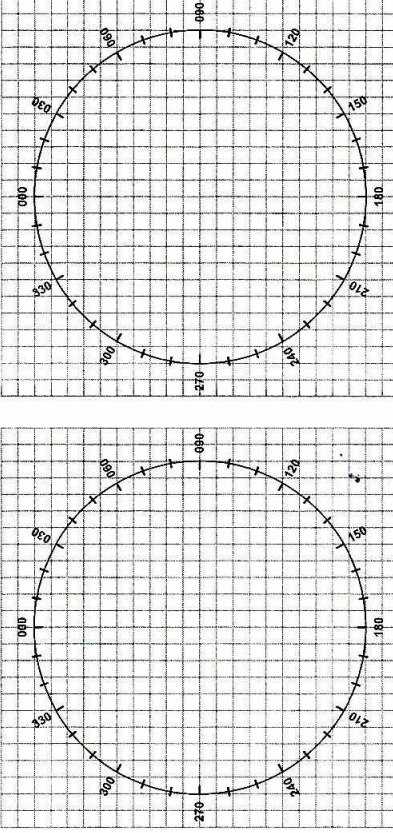
Flight Director:
Phone #:

Mike Holmes
(813) 828-3310 ext. 3140

FAV Tails 121009154

134.35 76-30

CLEARANCES			
FREQ	ALT	HDG	OTHER
3163			LMCF 41658
			40 61 MURDER ATOL
			VIKORA SPODY OLL
			WARRDS /
			LMCF 340 61
			MURDER ATOL VIKORA
			SPODY OLL WARRDS
			REF / OLL
			NO



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

POSITION REPORT

1. POSITION

2. TIME

3. ALTITUDE

4. NEXT POSITION

5. ETA

6. NEXT POSITION

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E=>	TH	DR +R=>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1341	FAV Tails																				
1345	FAV Tails																				
1351	FAV Tails																				
1355	FAV Tails	44-37.3 061-26.0	44-37.3 061-26.0	-1.5	44-37.3 061-26.0	-1.5	126	18W	108	4L	104	364	265	58	6170	312	6170	134	142	1435	
1455	FAV Tails	42-10.6 057-32.8	42-10.6 057-32.8	-1.5	42-10.6 057-32.8	-1.5	203	18W	185	14L	171	217	251	59	7.5K	230	511	21	406	1502	
1555	FAV Tails	39-21.9 058-02.9	39-21.9 058-02.9	-1.4	39-21.9 058-02.9	-1.4	327	17W	310	15L	325	207	256	61	7.0	254	5013	104	454	1651	
1655	FAV Tails	41-56.5 060-26.8	41-56.5 060-26.8	-1.5	41-56.5 060-26.8	-1.5	053	17W	050	5L	031	273	275	66	8.0	235	544	71	403	1658	
1755	FAV Tails	40-56.9 060-23.5	40-56.9 060-23.5	-1.8	40-56.9 060-23.5	-1.8	239	17W	222	16L	106	208	281	68	8.0	235	515	11	423	1758	
1855	FAV Tails	39-20.7 062-50.5	39-20.7 062-50.5	-1.2	39-20.7 062-50.5	-1.2	268	18W	252	8L	244	270	186	58	1060	310	1114	71	427	1925	
1955	FAV Tails	36-56.6 067-45.2	36-56.6 067-45.2	-2.6	36-56.6 067-45.2	-2.6	252	15W	240	6L	254	301	291	39	6260	322	1114	39	407	2002	
2055	FAV Tails	33-50.5 072-26.0	33-50.5 072-26.0	-4.0	33-50.5 072-26.0	-4.0	251	17W	239	9L	230	305	306	48	6270	301	1114	36	412	2107	
2155	FAV Tails	29-31.7 078-34.3	29-31.7 078-34.3	-1.3	29-31.7 078-34.3	-1.3	252	8W	244	3L	241	326	272	26	6280	347	1114	42	429	2202	
2255	FAV Tails																				
2355	FAV Tails																				
2455	FAV Tails																				
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41 BAC ATOL

[illegible]