

P-3 QC Checklist

Flight ID:	20190830H1
Flight Director(s):	Holmes
UWZ.d mean:	-0.13 m/s

Pressure Comparison		
	T/O	Land
Aircraft	1008.0	--
Tower	1008.0	

	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✓ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✓ AccAYI-GPS.2	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI-GPS.1 ✓ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✓ AccZfilter-GPS.2	✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3 ✓ AltGPS.4	✓ AltI-GPS.1 ✓ AltI-GPS.2	✓ AltPaADDU.1 ✓ AltBCADDU.1	✓ AltRA.1 ✓ AltRA.2	✓ ALTref ✓ ALTPA.d ✓ ALTGA.d	✓ AltRA1.c ✓ AltRA2.c
✓ Ground Speed	✓ GsXI-GPS.1 ✓ GsXI-GPS.2	✓ GsYI-GPS.1 ✓ GsYI-GPS.2	✓ GsZI-GPS.1 ✓ GsZI-GPS.2		✓ GSXref ✓ GSYref ✓ GSZref	
✓ Lat / Lon	✓ LatGPS.1 ✓ LatGPS.2 ✓ LatGPS.3 ✓ LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	✓ LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3 ✓ LonGPS.4	✓ LonI-GPS.1 ✓ LonI-GPS.2	✓ LATref ✓ LONref	
✓ Pressure	✓ PDALPHA.1 x PDALPHA.2 ✓ PDBETA.1 x PDBETA.2	✓ PQALPHA.1 ✓ PQBETA.1	✓ PQM.1 ✓ PQM.2 ✓ PQM.3 ✓ PQM.4	✓ PSM.1 ✓ PSM.2 ✓ PTM.1	✓ PDLAPHaref ✓ PDBETAref ✓ PQALPHAref ✓ PQBETAref	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1	✓ lasADDU.1		✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 ✓ PitchI.3	✓ PitchRatel.1 ✓ PitchRatel.2 ✓ PitchRatel.3	✓ RollI.1 ✓ RollI.2 ✓ RollI.3	✓ RollRatel.1 ✓ RollRatel.2 ✓ RollRatel.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 x TTM.3	✓ TDM.1 ✓ TDM.2 ✓ TDM.3	✓ TRadD.1 ✓ TRadS.1 x TRadU.1		✓ TD.c ✓ TDMref	✓ TTMref ✓ TA.d
✓ Misc. (Must check)					✓ UWZ.d ✓ DPJ_WSZ ✓ HUM	✓ WS.d ✓ WD.d

FLID_Mission_Documents.pdf:
✓ Error Summary
✓ Crew Manifest
✓ QC Checklist
✓ Dropwindsonde Log(s) - AVAPS and FD if completed
✓ Flight Track
✓ Miscellaneous FD Notes

QC Key	
Not checked	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/>

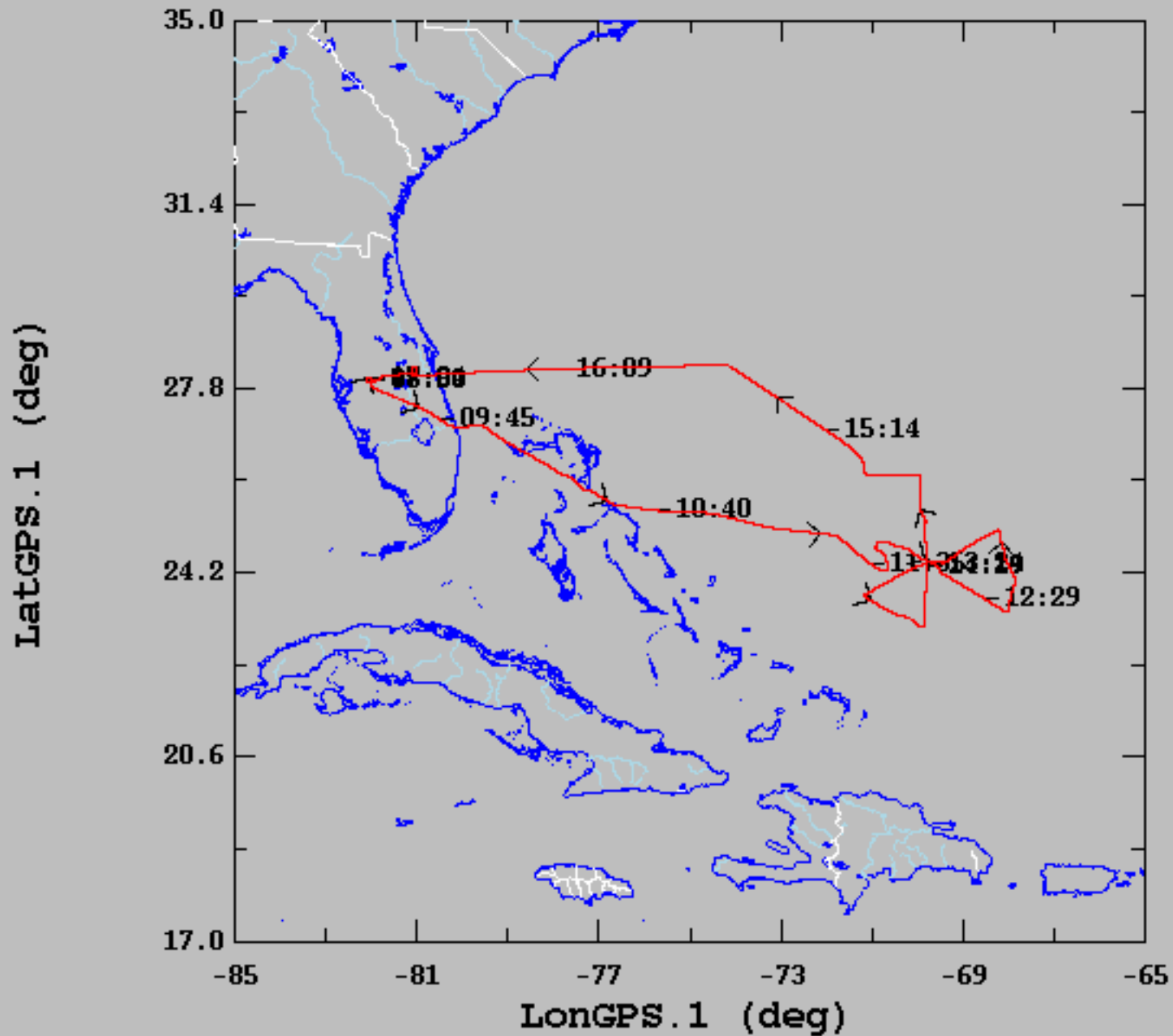
NOTES:
<p>PDAlpha.2 INOP for entire mission</p> <p>PDBeta.2 INOP for entire mission</p>

U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20190830H1	FLT #:		AC:	Didier	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0930Z	CP(s):	Mitchell	Gus Alaka	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1800Z		Doremus	Jason Sippel			ASOS Takeoff		22
Block Time		Flight Time		Nav(s):	Freeman	Brittany Dahl	A/C Land				BTs
In:	1709	Land:	1702		Lalonde	Mike Gonsalves			ASOS Land		Good
Out:	0913	T/O:	0922	Heystek		ASOS Land		-1			4
Total:	0:00 7.9	Total:	0:00 7.7	FD(s):				Visitors:	Storm Number ID:		AL052019
Sponsoring Org:	EMC			SEB:		Joe Newcomb	(ie: AL142018)				
Program:	PRX			SSA:	Naher	Meckley, Chad	TCPOD/WSPOD Mission		NOAA2 1705A DORIAN		
Purpose:	TDR			AVAPS:	Greene	Sur, Christine	(ie: NOAA2 0614A MICHAEL)				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X						
SCIENCE MISSION WITHIN BDRY LAYER					X						
LACK OF PRECIPITATION					X	3x 5 Humane Pennies					
RELATIVE HUMIDITY ≥ 80%				X		CAT II					
LARGE AIR-SEA TEMP GRADIENT					X						
HIGH SURFACE WINDS				X							
LONG FETCH / DURATION OF SFC WND				X							
SEA SALT ACCRETION FORECAST					X						
SEA SALT ACCRETION OBSERVED											
							*Highlighted items must be completed before departure.				
Remarks:											

20190830H1 Flight Track

2019-08-30, 08:50:18-17:04:32



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	25.95	1.66	23.15	28.24
— LongGPS.1 (deg), 1 s/sec	-74.19	4.76	-82.10	-67.83

NOAA • AOC • SED N42RF AVAPS DROP LOG

Lead Tech: Mike Mascaro

Project: Hurricane 2019

Mission: 20190830 H1

Flight ID: 20190830 H1

Take Off: _____

Landing: _____

Flt Dir: HOLMES

DORIAN

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	182520029	1	0	1153	JR	NWS	EP EMC	
2	182940399	2	0	1204	JR	NWS	CP RMW	
3	182740780	3	-0.7	1210		NESDIS	RMW	
4	182940398	4	-0.4	1212		NESDIS	CENTER RMW	
5	183320116	5	0	1215		NWS	CENTER	
6	18404033	6	0	1227		NWS		
7	184040014	7	0	1237		NWS		
8	183320256	8	0	1300		NWS		
9	183311012	9	0	1312		NWS	184170582	
10	183220256	10	-0.4	1318		NESDIS	184040014 RMW	
11	184750574	11	0.4	1323		NWS		
BAP 12	184040036	12	0				Drop butts No Launch	
13	184750411	13	0	1344		NWS		
14	184040245	14	0	1403 1403		NWS		
15	184750410	15	0	1411		NWS		
16	184750404	16	0	1422		NWS		
17	184026761	1	-0.4	1425		NESDIS	RMW	
18	184040047	2	0	1435		NWS		
19	182740659	3	0.5	1444		NWS		
20	182930367	4	-1.0	1508		NWS		
21	184750408	5	-0.5	1531		NWS	184750342	
22	184750420	6	0	1548		NWS		
23	184750596	7	0.4	1605		NWS		
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								

183320256@

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Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								

Drop Station Operator Notes

Charge \$\$ To Options: AOC, NWS, NESDIS, SAT (Special NESDIS/HRD), IR/SST or HRD **ONLY – Do not use funding 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 2015011811).
- 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.
- **Verify AVAPS PC Time is correct**
- **Early launch detects are caused usually by remanufactured sondes with the chute riser line not properly coiled between the PCB ears. This may also cause fast falls. If this is suspected, repack the riser line as time permits**
- **Eyewall drop performance is improved when using sondes manufactured after 7/2016**
- **Perform RH Regeneration on all sondes – this must be done prior to sonde initialization -**

AVAPS Launch:

- Select a sonde frequency in the Green band and away from other sondes
- Enter sonde pressure error offset. The latest AVAPS inserts a default offset value. Adjust if pressure offset is 0.4 mB or greater
- **If the Cal lab pressure standard and the cabin pressure standard match, apply pressure offset +/- 0.1 mB**
- Select "begin data collection" and verify good data (including Winds) prior to putting sonde in launch tube
- Failure to keep good lock on GPS is likely due to the GPS antenna connector on the sonde PCB needing to be rotated away from surface mount components – do this if needed.
- **Cut off about ½ 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**