

Dropsonde Scientist

Flight ID 190829H1 Storm DORIAN Mission ID 1405A

Dropsonde Scientists Brittany Dahl

AVAPS Operators Joe Greene

The Lead Project Scientist (LPS) on the P3 is responsible for determining the distribution patterns for dropwindsonde releases. Predetermined desired data collection patterns are illustrated on the flight patterns. However, these patterns are often altered because of clearance problems, etc. Operational procedures are contained in the operator's manual. On the G-IV the sole HRD person is designated the LPS. The following list contains more general supplementary procedures to be followed. (Check off or initial.)

Preflight

1. Determine the status of the AVAPS and workstation. Report results to the LPS.
2. Confirm the mission and pattern selection with the LPS and assure that enough dropsondes are on board the aircraft.
3. Modify the flight pattern or drop locations if requested by AOC to accommodate changes in storm location or closeness to land.
4. Complete the appropriate preflight set-up and checklists.

In-Flight

1. Operate the system as specified in the operator's manual.
2. Ensure the AOC flight director is aware of upcoming drops.
3. Ensure the AVAPS operator has determined that the dropsonde is (or is not) transmitting a good signal. Recommend if a backup dropsonde should be launched in case of failure.
4. Report the transmission of each drop and fill in the Dropwindsonde Scientist Log.

Post flight

1. Complete Dropwindsonde Scientist Log.
2. Download all raw and processed AVAPS files to thumbdrive
3. Brief the LPS on equipment status and turn in completed forms and thumbdrive.
4. Debrief at the base of operations.
5. Determine the status of future missions and notify Field Program Director as to where you can be contacted.

NOAA P-3 GPS Dropwindsonde Scientist Log (revised March 2019)

Storm **DORIAN**

Flight ID **1405A**

Dropsonde Scientist **B. Dahl**
Dropsonde Scientist

AVAPS Operator **J. Greene**
AVAPS Operator

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Mission ID **190829H1**

(exp. 0213A)

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST (C)	Eye/Eyewall, Rainband, etc.	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
✓ 1	190829_124532	1245	20.18	-67.9	1012	330/07	10	—		2
Comments <small>ch1</small> ✓										
2	190829_125512	1255								
Comments <small>ch3</small> fast fall - X DO not transmit										
3	190829_125521									
Comments <small>ch3</small> ✓ bkup mid. Early launch. postpone -NOT transmitted										
4	190829_130338	1303	21.16	-66.98	987	105/09	10	—	62626	4
Comments <small>ch4</small> ✓										
5	190829_130514	1305	21.16	-66.94	996	075/66	12	—	EYEWALL	5
Comments <small>ch5</small> ✓ flagged launch T&RH										
6	190829_131216	1312		-66.59	1012			—	mid	✓
Comments <small>ch6</small> ✓										
7	190829_	1320	21.99	-66.09	1012	100/35	10		end	✓
Comments <small>ch7</small> good										
8	190829_	1350	22.02	-67.90	1013	060/21	10	—	end	17
Comments <small>ch1</small> good										
9	190829_	1357	21.65	-67.51	1011	045/32	10	—	mid	18
Comments <small>ch2</small> good										
10	190829_	1401	21.48	-67.29	1004	015/45	10	—	mid	20
Comments <small>ch3</small> good										

CORR CCA ✓
 CORR CCA ✓

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Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST (°C)	Eye/Eyewall, Rainband, etc.	Ob #	
						Dir/Spd (deg/kt)	Hgt (m)				
✓ 11		1403	21.39	-67.19	996	355/43	10	-	EYEWALL 315	25	
Comments	on 4 good										
✓ 12		1405	21.30	-67.11	988	220/17	10	-	center	✓	
Comments	on 5 good										
✓ 13		1407	21.19	-67.09	997	210/37	10	-	EYEWALL	26	
Comments	on 6 flagged launch winds 135										
✓ 14		1413	20.84	-66.71	1010	205/32	10		end	27	
Comments	on 7 flagged launch T, RH, winds										
15		1423	<hr/>							end	-
Comments	on 1 bad DO NOT TRANSMIT										
★ 16		1432									
Comments	on 2 bkup - early launch detect DNT										
17		1439									
★ Comments	on 3 mid - late launch detect DNT										
18		1444									
Comments	on 4 DNT										
✓ 19		1448	21.42	-66.91					EYEWALL	32	
Comments	on 5 launch issue ignore t ≤ 35 rep lat/lon DNT										
✓ 20		1451	21.44	-67.18	987	255/27	10	-	center	21	
Comments	on 6 flagged launch T+RH!										

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Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST (C)	Eye/Eyewall, Rainband, etc.	Obs #
						Dir/Spd (deg/kt)	Hgt (m)			
✓ 21		1457	21.43	-67.59	1005	010/39	10	-	end	28
Comments ch6	launch issue - flagged launch thermo + wind, all obs t < 3.0 s									
✓ 22		1526	21.02	-67.18	1009	215/30			end	29
Comments ch7	flagged launch thermo + wind, all obs t ≤ 4s									
✓ 23		1535	21.65	-67.21	987	085/34	10	-	CENTER	23
Comments ch1	flagged launch T, RH, winds									
✓ 24		1536							EYEWALL	32
Comments ch2	1									
25		1541							mid	
Comments ch3	bad start not transmitted									
26										
Comments ch4	↑									
✓ 27		1554							end	30
Comments ch5	(M + Holmes)									
Comments										
Comments										
Comments										
Comments										

last report