205651 Take off from Lakeland
USS Land

Dropsonde Scientist

Flight ID 20190829H2 **Storm** Dorian **Mission ID** 15054

Dropsonde Scientists Sellwood _____

AVAPS Operators _____

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 20190829H2 Dropsonde Scientist Schwaab AVAPS Operator Terry Lynam Page# 1

Mission ID 150SA (exp. 0213A) Dropsonde Scientist AVAPS Operator

Deg/minutes

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to Dir/Spd (deg/kt)	Wind closest to Hgt (m)	SST (°C)	Eye/Eyewall, Rainband, etc.	Ob #
1	18294054 2	2323	2347	6930	1013	060/16	10		IP	2
Comments	ended at 242.75									
2	18294041 8	2335	2323	6848	1010	030/34	10		mid	3
Comments	good									
3	18294042 0	2350	2250	6757	979	130/16	10		Center	4
Comments	end at 17900									
4	18294038 7	0002	2227	6714	1009	180/37	10		Mid	5
Comments										
5	1829404 2	0013	2207	6635	1013	160/29	10		Endleg 1	6
Comments	end at 247.75									
6	1829 2047	0036	2343	6638	1012	120/36	10		Lg2End	8
Comments	end at 239.75									
7	18294041 9	0047	2339	6737	1016	100/41	10		mid	9
Comments	good									
8	18274041 3	0056	235	6757	991	80/80	12		RMW	10
Comments	rmw no center end 253.75									
9	18294041 0	109	2255	6847	1010	315/23	10		mid	11
Comments	end at 253.25									
10	18293536 4	120	2215	6924	1013	340/15	10		END	12
Comments										

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Storm
Mission ID

Flight ID
(exp. 0213A)

Dropsonde Scientist
Dropsonde Scientist

AVAPS Operator
AVAPS Operator

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11	18294057	138	2137	6811	1012	255/9	10		END	14
Comments										
12	18520028	149	2223	6810	1010	260/28	10		MID	15
Comments										
13	18294056	201	2239	6818	N/A	81/14	240		center	16
Comments	cut out at 240 meters									
14	18294055	202	2314	6819	—	—	—		RMW	17
Comments	cut out near ac									
15	18253200	209	2340	6819	1009	55/51	10		Change	18
Comments										
16	18253180	212	2354	6819	1011	74/32	10		MID	19
Comments	LLD.. override lat/lon junk at bottom									
17	18274061	225	2459	6827	1013	80/21	10		END	20
Comments	end 253.75									
Comments										
Comments										
Comments										