

Dropsonde Scientist

Flight ID 20190830H2 Storm Dorian Mission ID _____

Dropsonde Scientists Sellwood

AVAPS Operators Mac / Richardson

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
Mission ID *20190801* (exp. 0213A)

Dropsonde Scientist *Sellwood*
Dropsonde Scientist
-degrees

AVAPS Operator *Mac*
AVAPS Operator *R. Woodson*

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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)			
<i>1(1)</i>	<i>184750419</i>	<i>2235</i>	<i>2405</i>	<i>-7234</i>	<i>1010</i>	<i>25/24</i>	<i>10</i>		<i>IP</i>	<i>2</i>
Comments <i>293.75 end</i>										
<i>2</i>	<i>184750572</i>	<i>2246</i>	<i>2567</i>	<i>7161</i>	<i>1007</i>	<i>15/31</i>	<i>10</i>		<i>Mid</i>	<i>3</i>
Comments										
<i>3</i>	<i>184750222</i>	<i>2257</i>	<i>2532</i>	<i>7096</i>	<i>959</i>	<i>305/116</i>	<i>10</i>		<i>Rainw</i>	<i>6</i>
Comments <i>EW NW</i>										
<i>4</i>	<i>184750436</i>	<i>2259</i>	<i>2522</i>	<i>7088</i>	<i>951</i>	<i>230/13</i>	<i>10</i>		<i>Center</i>	<i>4</i>
Comments <i>end 230.0</i>										
<i>5</i>	<i>184750536</i>	<i>2300</i>	<i>2519</i>	<i>7075</i>	<i>973</i>	<i>146/54.5</i>	<i>13</i>		<i>Rainw</i>	<i>7</i>
Comments <i>end 258.75</i>										
<i>6</i>	<i>184750571</i>	<i>2302</i>	<i>2512</i>	<i>7062</i>	<i>993</i>	<i>165/66</i>	<i>12</i>		<i>NB Dis</i>	<i>9</i>
Comments										
<i>7</i>	<i>184750823</i>	<i>2309</i>	<i>2490</i>	<i>7020</i>	<i>1007</i>	<i>175/45</i>	<i>10</i>		<i>Mid</i>	<i>10</i>
Comments										
<i>8</i>	<i>184750426</i>	<i>2316</i>	<i>2464</i>	<i>6971</i>	<i>1012</i>	<i>205/21</i>	<i>10</i>		<i>END</i>	<i>11</i>
Comments										
<i>9</i>	<i>184750445</i>	<i>2340</i>	<i>2606</i>	<i>6959</i>	<i>1013</i>	<i>105/30</i>	<i>12</i>		<i>END</i>	<i>12</i>
Comments										
<i>10</i>	<i>184750579</i>	<i>2352</i>	<i>2572</i>	<i>7037</i>		<i>105/28</i>	<i>19</i>		<i>MID</i>	<i>13</i>
Comments <i>(M/S)</i>										

① minis (10) 2348 ② 2349 ③ 2349 ④

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Storm
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AVAPS Operator
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3
RMW
DEW
SW

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	184050024	2359	2547	7084	980	80/92	10		EW NE	X
Comments		good but do no xmt (experiment)								
12	182940543	0600	2543	7093	960	41/116	10		EW NE	14
Comments		end 293.75 send as RMW								
13		0601			75				EW NE	X
Comments		Bad Temp RH don't xmt								
14	182730869	0003	2529	7505	951	29/32	10		EW SW	X
Comments										
15	182740649	0604	2525	7113	970	25/83	10		EW SW	15
Comments										
16	182750862	0606	2521	7120	985	265/113	10		EW SW	X
Comments										
17	182610109	0019	2481	7199	1008	285/23	10		MID	21
Comments		reset end								
18	182531165	0025	2459	7242	1011	320/23	10		END	22
Comments										
19	182740662	0044	2391	7116					END	X
Comments		False LLD								
20	182640451	0055	2463	7109	1008	290/24			MID	23
Comments		end 226.50								

minis ① 0015 ② 0014 ③ 0017

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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)				
21	182531183	0103	2519	7114	983	200/94	10		mesdis	26	
Comments											
22	182610098	0104	2530	7115	956	170/131	10		EW S	19	
Comments											
23	182230736	0106	2540	7119	950	170/18	10		Center	16	
Comments											
24	182230745	107	2551	7120	959	02/112	10		EW N	20	
Comments Sat dropout < 180m											
25	182620858	109	2559	7120	979	45/77	10		WESDIS	27	
Comments											
26	18230744	119	2629	7116	—	—	—		MID	24	
Comments Dropped from sampling 300m											
27	182950864	129	2655	7114	1013	70/29	10		END	25	
Comments											
28	182230728	155	2900	7100	1017	70/18	10		Roll	28	
Comments											
29	182730867	208	2900	72.5	1017	65/16	12		↓	29	
Comments											
30	182531181	222	2900	74.02	1017	55/17	10			30	
Comments											
31	182830057	232	2900	7540	1017	80/15	10			31	
Comments											
32	182610177	246	29.00	7700	1017	90/10	10		32		
Comments											
33	182730665	259	2900	7849	1016	110/12	10		40		
Comments											

DS END

1927 0213A
182730867
182730665
182610177
182531181
182830057
182950864
182230728
18230744
182620858
182230745
182230736
182610098
182531183