NOAA P-3 GPS Dropwindsonde Scientist Log (MS Word version 2020)

Flight ID 20210829I1 **Storm** Ida **Dropsonde Scientist** Hazelton

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 often are required to be 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 HAPS or 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. Brief the LPS on equipment status and turn in completed forms, dropwindsonde data tapes, DVDs, or CDs.
[**Note**: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]

✓ 4. Debrief at the base of operations.

✓ 5. Determine the status of future missions and notify MGOC as to where you can be contacted.

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Storm IDA Flight ID 20210829I1 Dropsonde Scientist Hazelton AVAPS Operator

Mission ID WB09A (ex. 0101A) Take Off 0738 UTC Landing

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Lon (°E/W)	Sfc Pressure (mb)	Lowest Wind Dir/Spd (deg/kt)	Lowest Wind Hgt (m)	SST (°C)	Eye, Eyewall, Rainband, etc.	Ob #	
1	20452140S	0852	26.87	87.85	1008.7	185/56	12	29.5	—	01	combo
Comments	Endpoint SE										
2		0903	27.41	88.47	999.7	—	10	—	—	02	
Comments	Mid SE										
3	20304005S	0914	27.95	89.05	—	—	—	—	Eyewall	03	
Comments	RMW SE										
4	20304003S	0914	27.96	89.06	—	—	—		Eyewall	04	
Comments	RMW SE										
5	20304006S	0914	27.98	89.07	—	—	—		Eyewall	05	
Comments	RMW SE										
6	20304006I	0916	28.12	89.17	937.4	160/13	10	29.75	center	06	
Comments	center		28.19	89.01	949.2	23/106	—	—			
7	[illegible]	0926	[illegible]	[illegible]	[illegible]	[illegible]	12	—	RMW NE	07	
Comments	RMW NE										
8	[illegible]	0926	28.21	89.00	953.1	100/120	10	—	RMW NE	09	
Comments	RMW NE	Aspen says		Fast Fall, Think it's good							
9	[illegible]	0926	28.21	88.99	955.5	100/112	—	—	RMW NE	10	
Comments	RMW NE										
10	20485052O	0936	28.53	88.40	996.9	[illegible]	29.09	32.7	—	11	combo
Comments	[illegible]	Midpoint	NE			130/62					

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Storm _____ Flight ID _____ Dropsonde Scientist _____ AVAPS Operator _____

Mission ID _____ (ex. 0101A) Take Off _____ Landing _____

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Lon (°E/W)	Sfc Pressure (mb)	Lowest Wind Dir/Spd (deg/kt)	Lowest Wind Hgt (m)	SST (°C)	Eye, Eyewall, Rainband, etc.	Ob #
11	20303107I	0946	27.93	87.74	1005.9		10	'	(	12
Comments	Endpoint NE									
12	20304008I	1014	28.38	89.13	948.2	085/98	10	—	Eyewall NE	13
Comments	Aspen Fast Fall, Think it's good									
13	20303107J	1018	28.23	89.31	936.1	130/14	12	—	Center	14
Comments	Center									
14	20304006I	1022	28.41	89.42	949.7	356/111	10	—	Eyewall NW	15
Comments	RMW NW		Lost GPS (Only 2)							
15	—	1026							—	
Comments	RMW NW									
16	20408I	1024	28.42	89.43				—	—	17
Comments	RMW NW		Late launch							
17	20307002I	1029	28.73	89.79	992.2	030/65	10	29.7	—	18
Comments	Release Mid Combo NW									
18	20465026J	1033	28.93	90.00	999.8	040/58	12	—	—	19
Comments	Endpoint NW									
19	20453047I	1048	27.97	90.45	1001.3	320/36	12	—	—	20
Comments	Reposition W									
20	20465032J	1058	27.51	90.49	1002.8	295/36	10	29.58	—	21
Comments	Endpoint SW									

Bad: 1

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21	20331[illegible]43	1107	27.95	90.06	—	—	—	—	—	22	
Comments	Midpoint SW										
22	20965[illegible]327	1115	28.36	89.59	941.9	236/107	10	—	—	23	
Comments	RMW SW										
23	20464[illegible]0125	1116	28.37	89.58	938.2	256/109	10	—	Eyewall SW	25	
Comments	RMW SW Post splash										
24		1116	28.37	89.57	940.4	265/86	10	—	—	26	
Comments	RMW SW										
25	20304[illegible]0057	1118	28.43	89.45	934.1	170/89	10	—	Center	24	
Comments	Center										
26	—	1139								—	
Comments	RMW NE			Really	Bad	Early	Launch		No Transmit		
27	20453[illegible]0392	1140	28.58	89.45	937.1	045/60	10	—	—	27	
Comments	RMW NE										
28	20453[illegible]0388	1233	28.58	89.50	950.0	126/135	10	—	RMW E	28	
Comments	RMW E										
29	20464[illegible]0462	1234	28.58	89.54	938.5	118/109	10	—	RMW E	29	
Comments	RMW E										
30	20453[illegible]0501	1236	28.56	89.68	931.0	240/12	[illegible]	29.12	Center	30	Combo
Comments	Post Splash										

Bad: 11

Bad; 111

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Drop #	Sonde ID	Time UTC	Lat (°N/S)	Lon (°E/W)	Sfc Pressure (mb)	Lowest Wind Dir/Spd (deg/kt)	Lowest Wind Hgt (m)	SST (°C)	Eye, Eyewall, Rainband, etc.	Ob #
31	20453047	1316	28.79	89.77	950.6	086/140	10	—	Eyewall	31
Comments	RMW NE									
32	—	1317	—	—	—	—	—	—	—	—
Comments	RMW NE	No temperature data			Did not transmit					
33	20331016	1324	28.94	90.96	1000 lb	355/43	10	—	—	32
Comments	Sonde for [illegible] coastal survey									
34	20164023	1358	[illegible]	90.08	957.2	356/104	10	—	—	33
Comments	RMW W	Some Post Splash Data								
35	20325035	1359	28.81	90.01	—	—	—	—	—	34
Comments										
36										
Comments										
37										
Comments										
38										
Comments										
39										
Comments										
40										
Comments										

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Mission ID_____ (ex. 0101A) Take Off_____ Landing_____

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Comments										
Comments										
Comments										
Comments										
Comments										
Comments										
Comments										
Comments										
Comments										
Comments										