

Flight ID 2010829I 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.

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

Storm TD A Flight ID 20210829I1 Dropsonde Scientist Huze Han AVAPS Operator \_\_\_\_\_  
 Mission ID WB9A (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	204521405	0752	26.87	87.85	1008.7	185/56	12	29.5	—	01
Comments <u>Endpoint SE</u>										
2		0903	27.41	88.47	999.7	—	10	—	—	02
Comments <u>Mid SE</u>										
3	203040058	0914	27.95	89.05	—	—	—	—	Eyewall	03
Comments <u>RMW SE</u>										
4	203040036	0914	27.96	89.06	—	—	—	—	Eyewall	04
Comments <u>RMW SE</u>										
5	203040062	0914	27.98	89.07	—	—	—	—	Eyewall	05
Comments <u>RMW SE</u>										
6	203040061	0916	28.12	89.17	937.4	160/13	10	29.75	Center	06
Comments <u>Center</u>										
7	<del>203040061</del>	0926	<del>28.19</del>	<del>89.01</del>	<del>949.2</del>	<del>23/106</del>	—	—	RMW NE	07
Comments <u>RMW NE</u>										
8	<del>203040061</del>	0926	28.21	89.00	953.1	100/120	10	—	RMW NE	09
Comments <u>RMW NE</u> <u>Aspen says Fast Fall, Think it's good</u>										
9	<del>203040061</del>	0926	28.21	88.99	955.5	100/112	—	—	RMW NE	10
Comments <u>RMW NE</u>										
10	204850510	0936	28.53	88.40	946.9	<del>100/112</del>	29.09	26.7	—	11
Comments <u>Midpoint NE</u>										

Conto

Conto

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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	203031071	0946	27.93	82.77	1005.9		10			12
Comments Endpoint NE										
12	203040081	1014	20.38	89.13	948.2	085/98	10		Eyewall NE	13
Comments Asher Fast Fall, Think it's good										
13	20303073	1008	27.23	89.31	936.1	130/14	17		center	14
Comments center										
14	203040066	1022	28.41	89.42	949.7	356/111	10		Eyewall NW	15
Comments <del>RNW NW</del> Lost GPS (only 2)										
15		1022								
Comments <del>NMW NW</del>										
16	2021082911	1024	28.92	89.93	<del>949.7</del>	<del>356/111</del>	<del>10</del>			17
Comments <del>NMW NW</del> Late launch										
17	203070032	1029	28.73	89.79	992.2	030/65	10	29.7		18
Comments release mid combo NW										
18	204650263	1033	28.93	90.00	999.8	040/58	12			19
Comments Endpoint NW										
19	204530172	1048	27.97	90.45	1001.3	320/36	12	29.8		20
Comments Reposition W										
20	204650229	1058	27.51	90.49	1002.0	295/36	10	29.58		21
Comments Endpoint SW										

Bad: 1

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21	203310043	1107	27.95	90.86	—	—	—	—	—	22
Comments midpoint SW										
22	204650327	1115	28.36	89.59	941.9	236/107	10	—	—	23
Comments RMW SW										
23	204640125	1116	28.37	87.58	<del>942.2</del> <sup>929.2</sup>	256/109	10	—	Eye wall SW	25
Comments RMW SW post splash										
24		1116	28.37	89.57	940.4	265/86	10	—	—	16
Comments RMW SW										
25	203040057	1118	28.43	89.45	<del>942.4</del> <sup>945.4</sup>	170/89	10	—	Center	24
Comments Center										
26		1129								—
Comments RMW NE Really Bad Fwky Launch No Transmit										
27	204620392	1140	28.58	89.45	937.1	045/60	10	—	—	27
Comments RMW NE										
28	204520308	1233	28.58	89.50	950.0	126/135	10	—	RMW E	28
Comments RMW E										
29	204640462	1234	28.58	89.54	938.5	118/109	10	—	RMW E	29
Comments RMW E										
30	204530501	1236	28.56	89.68	931.0	240/12	10	29.12	Center	30
Comments Post splash										

Bad: 11

Combo

Bad: 111

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31	204530474	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	203310161	1344	28.94	90.96	1000.6	355/93	10	—	—	32
Comments Sonde for <del>00</del> coastal survey										
34	20164023	1357	<del>28.94</del>	90.08	957.2	356/104	10	—	—	33
Comments RMW W Some Post-Splash Data										
35	203250754	1359	28.81	90.01	—	—	—	—	—	34
Comments										
36										
Comments										
37										
Comments										
38										
Comments										
39										
Comments										
40										
Comments										