

Flight ID 20210601H1 Storm 412 Dropsonde Scientist WBLA

20210601I1

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Hazelton

WBLA LARRY

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 ANAY Flight ID 20100906E1 Dropsonde Scientist Hazelton AVAPS Operator \_\_\_\_\_  
 Mission ID W812A (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, Erewall, Rainband, etc.	Ob #
1	211350113	1703	20.96	53.19	1001.6	210/90	10	27.5	—	1
Comments: late launch 1 post-splash 1 endpoint 5										
2	2045041	1718	21.56	53.23	977.6	210/71	10	—	—	2
Comments: <del>endpoint</del> midpoint 5										
3	20452070	1726	22.10	53.45	957.5	070/09	10	—	Eye	3
Comments: Eye sonde (center)										
4	204520759	1744	23.33	53.46	945.7	050/72	10	—	—	5
Comments: Midpoint N										
5	21192024	1754	23.97	54.46	1005.0	065/38	10	28.31	—	6
Comments: Endpoint N										
6	212250268	1832	23.16	55.33	1002.8	010/41	10	28.61	—	7
Comments: Endpoint NW Post splash Data										
7	21194032	1905	22.72	54.51	989.9	355/67	10	—	—	8
Comments: Midpoint NW Post splash Not detected										
8	21192052	1912	22.52	54.11	<del>989.9</del>	311/108	10	—	Rmw NW	9
Comments: Rmw NW 982-2 125/05										
9	203550378	1918	22.33	53.67	955.8	<del>180/81</del>	10	27.46	center	10
Comments: center splash data not detected										
10	21190519	1933	21.83	52.81	990.8	180/81	10	—	—	11
Comments: Midpoint SE										

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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	21250276	1945	21.98	52.00	—	—	—	26.92	—	13
Comments Endpoint SE										
12	21250296	1959	22.58	51.98	1003.5	150149	12	27.11	—	14
Comments Downwind legs										
13	—	2011	—	—	—	—	—	27.96	—	—
Comments Endpoint NE Sonde died										
14	21250114	2015	23.18	52.50	1000.6	105161	10	—	—	15
Comments Endpoint NE Backup										
15	21261021	2023	<del>22.99</del> 22.99	<del>53.03</del> 53.03	977.2	110160	10	—	—	16
Comments midpoint NE										
16	212350121	2028	22.73	53.31	969.5	105179	10	—	Eyewall NE	17
Comments Eyewall NE										
17	21194030	2036	22.38	53.81	958.5	210103	10	—	center	18
Comments Center										
18	211250271	2106	22.31	53.89	959.8	29019	10	—	—	19
Comments Eyewall/mixing sonde										
19	203490550	2116	22.17	54.17	969.8	290165	10	—	Eyewall SW	20
Comments Eyewall SW										
20	—	2122	21.95	54.59	989.9	280151	10	—	—	21
Comments Midpoint SW										

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