

Flight ID 20210601H1 Storm 412 Dropsonde Scientist Sullivan

20210601I1

LARRY

Hazelton

WB1A 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.

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: endpoint 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 | 989.9 | 311/108 | 10 | — | Rmw NW | 9 |
| Comments: Rmw NW 982-2 125/05 | | | | | | | | | | |
| 9 | 203550378 | 1918 | 22.33 | 53.67 | 955.8 | 180/81 | 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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NOAA P-3 GPS Dropwindsonde Scientist Log (MS Word version 2020)

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 | 22.99 22.99 | 53.03 53.03 | 977.2 | 110160 | 10 | — | — | 16 |
| Comments midpoint NE | | | | | | | | | | |
| 16 | 212350121 | 2048 | 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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