**Dropwindsonde Scientist Log**

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| **Storm:** | ADALIA | **Flight ID:** | 20230829I2 | **Mission ID:** | 1210A | **Takeoff:** | 2040 | **Landing:** | HHMMZ |

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| **Dropsonde Scientist(s):** | J. Zhang/Sippel | **AVAPS Operator:** | Nick Underwood |

**Pre-flight**

✓ Discuss the pattern with the Lead Project Scientist (LPS) and ensure that enough dropsondes are onboard.

✓ Complete the appropriate pre-flight set-up of your workstation and ASPEN (see [Dropsonde Processing Guide](https://docs.google.com/document/d/1-Ks4ahJ43NixJO94ypp366rvf3GG1YIC/edit?usp=sharing&ouid=106549196843040809882&rtpof=true&sd=true)).

**In-flight**

✓ Ensure the Flight Director is aware of upcoming drops and whether a backup is requested in case of failure.

✓ Ensure the AVAPS operator has determined that the dropsonde is (or is not) transmitting a good signal.

✓ Prioritize processing of center drops and report MSLP and surface wind speed and direction to the Flight Director.

✓ Fill in the Dropwindsonde Scientist log as drops are released and processed.

✓ Copy completed ASPEN files (e.g., FRD, netCDF, Skew-t, WMO txt, BUFR) into the “FRD” folder on the workstation desktop for automated transmission to the ground for archival.

**Once “science is complete”...**

✓ Make synoptic map plots in ASPEN and copy them to the “FRD” folder on the workstation desktop for automated transmission to the ground for archival.

✓ Ensure ASPEN files have been sent to the ground by locating and verifying all files in the “FLIGHTID” folder within the “FRD” folder on the workstation desktop.

✓ Archive ASPEN\_DATA and RAW\_DATA into a folder named with the FLIGHTID within the “Season Dropsonde Archive” folder on the workstation desktop and upload the same directories into StormName/FLIGHTID/Dropsonde/ folder on Drive.

✓ Download this Dropwindsonde Scientist Log as “PDF” and upload completed PDF and Google Doc to the StormName/FLIGHTID/Dropsonde/ folder within the “Mission Reports” directory in the HFP Google Drive.

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| **Drop**  **#** | **Sonde ID** | **Time**  **UTC** | **Lat**  **(°N/S)** | **Lon**  **(°E/W)** | **Sfc Pressure**  **(mb)** | **Lowest Wind**  **Direction/Speed**  **(deg/kt)** | **Lowest Wind**  **Height**  **(m)** | **AXBT SST (°C)** | **Eye, Eyewall,**  **Rainband, etc.** | **Ob**  **#** |
| 1 | 221950421 | 211025 | 26.90 | -82.49 | 1005.6 | 11027 | 10 |  |  | 01 |
| Comments: IP NE | | | | | | | | | | |
| 2 | 221830427 | 212441 | 26.50 | -83.38 | 1001.4 | 13040 | 10 | BT failed |  | 02 |
| Comments: MP-NE – BT combo | | | | | | | | | | |
| 3 | 220610210 | 213704 | 26.30 | -84.22 | 991.2 | 14559 | 10 |  |  | 03 |
| Comments: RMW- NE likely rainbad | | | | | | | | | | |
| 4 | 220420540 | 214016 | 26.27 | -84.43 | 980.8 | 13574 | 10 |  | Eyewall 045 | 04 |
| Comments: RMW - | | | | | | | | | | |
| 5 | 220750398 | 214048 | 26.26 | -84.46 | 968.5 | 06504 | 10 |  | Eye | 05 |
| Comments: 1st CENTER | | | | | | | | | | |
| 6 | 222021167 | 214720 | 26.21 | -84.90 | 981.1 | 31063 | 10 |  | EYEWALL 225 | 07 |
| Comments: RMW-SW | | | | | | | | | | |
| 7 | 221950754 | 215812 | 25.86 | -85.57 | 998 | 29527 | 10 |  |  | 08 |
| Comments: MP-SW | | | | | | | | | | |
| 8 | 221950453 | 221212 | 25.40 | -86.43 | 1002 | 32028 | 10 | 30.1 |  | 09 |
| Comments: EP-SW Combo | | | | | | | | | | |
| 9 | 221750754 | 223526 | 24.86 | -84.72 | 1001 | 22536 | 10 | 28 |  | 10 |
| Comments: IP2 of S-W pass COMBO Sippel submitted | | | | | | | | | | |
| 10 | 221950409 | 224827 | 25.80 | -84.72 | 996 | 22032 | 10 |  |  | 11 |
| Comments: MP-S Sippel submitted | | | | | | | | | | |

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| 11 | 221950413 | 225754 | 26.47 | -84.66 | 997 | 22067 | 10 |  | Eyewall 180 | 12 |
| Comments: RMW-S - Sippel submitted | | | | | | | | | | |
| 12 | 221430450 | 230101 | 26.68 | -84.66 | 965 | 34002 | 10 | 28.7 | Eye | 13 |
| Comments: 2 nd center Combo - Sippel submitted | | | | | | | | | | |
| 13 | 221210623 | 230358 | 26.86 | -84.75 | 981 | 03064 | 10 |  | Eyewall 0 | 14 |
| Comments: RMW-N - Sippel submitted | | | | | | | | | | |
| 14 | 221230710 | 231340 | 27.51 | -84.83 | 998 | 06033 | 10 |  |  | 16 |
| Comments: MP-N - Sippel submitted | | | | | | | | | | |
| 15 | 221950754 | 215812 | 25.86 | -85.57 | 998 | 29527 | 10 | No |  | 17 |
| Comments: EP-N - Sippel submitted COMBO BT Data started at 50 m depth | | | | | | | | | | |
| 16 | 220430183 | 234840 | 27.96 | -86.37 | 1001 | 04526 | 10 |  |  | 18 |
| Comments: IP3 NW – SE pass | | | | | | | | | | |
| 17 | 220440147 | 000243 | 27.52 | -85.48 | 997 | 04027 | 10 |  |  | 19 |
| Comments: MP-NW | | | | | | | | | | |
| 18 | 221220359 | 001436 | 27.14 | -84.14 | 978 | 02551 | 10 |  | EYEWALL-315 | 20 |
| Comments: RMW-NW | | | | | | | | | | |
| 19 | 220430748 | 001722 | 27.30 | -84.60 | 962 | 17025 | 10 |  | EYE | 21 |
| Comments: 3RD Center | | | | | | | | | | |
| 20 | 221840072 | 002021 | 26.93 | -84.42 | 976 | 15088 | 10 |  | EYEWALL-135 | 22 |
| Comments: RMW-SE | | | | | | | | | | |

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| 21 | 221430153 | 003047 | 26.59 | -83.79 | 997 | 17037 | 10 |  |  | 23 |
| Comments: MP-SE | | | | | | | | | | |
| 22 | 221840048 | 004655 | 26.29 | -82.89 | 1004 | 18042 | 10 |  |  | 24 |
| Comments: EP-SE | | | | | | | | | | |
| 23 | 221150722 | 011911 | 27.19 | -84.37 | 976 | 10494 | 10 |  |  | 25 |
| Comments: RMW – SE FLAME MODULE Out bound | | | | | | | | | | |
| 24 | 220750616 | 014837 | 27.44 | -84.34 | 978 | 11072 | 10 |  |  | 26 |
| Comments: RMW – NE Flame module inbound | | | | | | | | | | |
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