**Dropwindsonde Scientist Log**

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| **Storm:** | TAMMY | **Flight ID:** | 20231021I1 | **Mission ID:** | 0920A | **Takeoff:** | 0591 | **Landing:** | HHMMZ |

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| **Dropsonde Scientist(s):** | Jun Zhang | **AVAPS Operator:** | Waggoner/Patel |

**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 | 221750526 | 1015 | 13.88 | 59.93 | 1008 | 20519 | 10 | 29.7 |  | 01 |
| Comments: IP1 SE-NW pass AXBT COMBO post splash corrected | | | | | | | | | | |
| 2 | 222520369 | 1027 | 14.63 | 60.22 | 1007 | 21026 | 10 |  |  | 02 |
| Comments: MD SE | | | | | | | | | | |
| 3 | 221950419 | 1039 | 15.45 | 60.41 | 995 | 04564 | 10 |  | Center | 03 |
| Comments: 1st Center drop Marked as center in WMO | | | | | | | | | | |
| 4 | 220430728 | 1041 | 15.55 | 60.46 | 1001 | 01558 | 10 |  | NW eyewall | 04 |
| Comments: RMW NW | | | | | | | | | | |
| 5 | 222010845 | 1052 | 16.22 | 60.86 | 1010 | 08536 | 10 |  |  | 05 |
| Comments: MP NW | | | | | | | | | | |
| 6 | 222010844 | 1104 | 16.98 | 61.31 | 1011 | 10023 | 10 | 28.86 |  | 06 |
| Comments: EN1 NW AXBT COMBO | | | | | | | | | | |
| 7 | 221830428 | 1145 | 14.41 | 61.72 | 1010 | 09512 | 11 |  |  | 07 |
| Comments: IP2 SW-NE pass unable to dynamically adjust wind – no winds at most of the levels | | | | | | | | | | |
| 8 | 221740653 | 1200 | 15.15 | 60.96 | 1007 | 00523 | 10 |  |  | 08 |
| Comments: MP SW | | | | | | | | | | |
| 9 | 221950417 | 1207 | 15.50 | 60.57 | 993 | 29039 | 10 |  | SW eyewall | 09 |
| Comments: RMW SW labeled eyewal | | | | | | | | | | |
| 10 | 221950416 | 1209 | 15.62 | 60.50 | 990 | 11027 | 10 |  | CENTER | 10 |
| Comments: 2nd Center | | | | | | | | | | |

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| 11 | 222030365 | 1213 | 15.76 | 60.28 | 1003 | 10574 | 10 |  | NE Eyewall | 11 |
| Comments: RMW NE | | | | | | | | | | |
| 12 | 221810061 | 1222 | 16.07 | 59.72 | 1009 | 10048 | 10 |  |  | 12 |
| Comments: MP NE | | | | | | | | | | |
| 13 | 221810097 | 1235 | 16.54 | 59.00 | 1011 | 10523 | 10 |  |  | 13 |
| Comments: EP2 NE | | | | | | | | | | |
| 14 | 222030352 | 1254 | 17.34 | 60.13 | 1012 | 12527 | 10 |  |  | 14 |
| Comments: IP3 NE-SW pass close to N-S pass 12.55 degree from north | | | | | | | | | | |
| 15 | 221740808 | 1305 | 16.63 | 60.33 | 1010 | 09536 | 10 |  |  | 15 |
| Comments: MP NE | | | | | | | | | | |
| 16 | 222010842 | 1315 | 15.97 | 60.52 | 1004 | 06550 | 12 |  | NE Eyewall | 16 |
| Comments: RMW NE | | | | | | | | | | |
| 17 | 221930078 | 1319 | 15.75 | 60.67 | 994 | 07512 | 10 |  | Center | 17 |
| Comments: 3rd Center | | | | | | | | | | |
| 18 | 221950517 | 1322 | 15.58 | 60.71 | 1001 | 27045 | 10 |  | SW Eyewall | 18 |
| Comments: RMW SW labeled eyewall sonde | | | | | | | | | | |
| 19 | 221950398 | 1331 | 14.98 | 60.88 | 1009 | 25516 | 10 |  |  | 19 |
| Comments: MP/EP3 SW Cut outbound leg short due to land | | | | | | | | | | |
| 20 | 221430163 | 1406 | 15.43 | 59.03 | 1012 | 15023 | 10 |  |  | 20 |
| Comments: IP4 E-W pass | | | | | | | | | | |

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| 21 | 222021291 | 1418 | 15.66 | 59.88 | 1009 | 13032 | 10 |  | rainband | 21 |
| Comments: MP E | | | | | | | | | | |
| 22 | 222050536 | 1426 | 15.79 | 60.44 | 1005 | 16053 | 10 |  |  | 22 |
| Comments: RMW E | | | | | | | | | | |
| 23 | 221430174 | 1429 | 15.88 | 60.58 | 1000 | 15561 | 10 |  | E Eyewall | 23 |
| Comments: RMW2 E | | | | | | | | | | |
| 24 | 221740821 | 1432 | 15.97 | 60.74 | 994 | 14516 | 10 |  | Center | 24 |
| Comments: 4th Center | | | | | | | | | | |
| 25 | 221740664 | 1436 | 15.95 | 61.04 | 1003 | 01029 | 10 |  |  | 25 |
| Comments: MP/RMW W not labeling eyewall | | | | | | | | | | |
| 26 | 221740662 | 1454 | 15.84 | 62.27 | 1010 | 11022 | 10 |  |  | 26 |
| Comments: EP4 W | | | | | | | | | | |
| 27 | 221830686 | 1548 | 16.49 | 59.64 | 1010 | 13018 | 10 |  |  | 27 |
| Comments: Sonde at the top of spiral microphysics module ~7km, T= -12.2 degree C 22000 ft | | | | | | | | | | |
| 28 | 221950420 | 1610 | 16.91 | 60.31 | 1009 | 12531 | 10 |  |  | 28 |
| Comments: IP6 NE – SW FLAMES module Last report | | | | | | | | | | |
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