**Dropwindsonde Scientist Log**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Storm:** | TAMMY | **Flight ID:** | 20231022I1 | **Mission ID:** | WA20A | **Takeoff:** | 1302 | **Landing:** | HHMMZ |

|  |  |  |  |
| --- | --- | --- | --- |
| **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.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | 221740650 | 1414 | 18.25 | 61.61 | 1011 | 14032 | 10 | 28.6 |  | 01 |
| Comments: IP SE-NW Pass COMB regular sonde |
| 2 | 210440180 | 1414 | 18.25 | 61.61 | 1012 | 13037 | 10 |  |  | 02 |
| Comments: IP IRsonde |
| 3 | 221430460 | 1433 | 18.86 | 62.81 | 1001 | 14546 | 10 |  | SE Eyewall | 03 |
| Comments: RMW SE |
| 4 | 221640973 | 1437 | 18.96 | 63.13 | 993 | 12006 | 10 |  | CENTER | 04 |
| Comments: Center super COMBO - BT + Irsonde this one is regular sonde |
| 5 | 220610235 | 1437 | 18.96 | 63.13 | 992 | 13008 | 10 |  | CENTER | 05 |
| Comments: Center IR sonde |
| 6 | 222010791 | 1440 | 19.06 | 63.32 | 999 | 35563 | 10 |  | NW Eyewall | 06 |
| Comments: RMW NW close to saildrone SD1040 |
| 7 | 210440199 | 1459 | 19.85 | 64.32 | 1011 | 07526 | 10 |  |  | 07 |
| Comments: EP1 NW Irsonde combo IRsonde |
| 8 | 221950430 | 1459 | 19.85 | 64.32 | 1010 | 06025 | 10 |  |  | 08 |
| Comments: EP1 NW regular sonde |
| 9 | 211440633 | 1522 | 18.54 | 64.21 | 1009 | 00514 | 10 |  |  | 09 |
| Comments: IP2 Irsonde combo, Irsonde SW-NE Pass and Altius launch |
| 10 | 221740798 | 1522 | 18.53 | 64.21 | 1008 | 02020 | 10 |  |  | 10 |
| Comments: IP2 regular sonde  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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** **#** |
| 11 | 221410025 | 1559 | 18.96 | 63.36 | 995 | 30549 | 10 | 28.95 |  | 11 |
| Comments: Saildrone super COMO AXBT + Irsonde this one is regular sonde |
| 12 | 213320981 | 1559 | 18.96 | 63.36 | 994 | 29544 | 10 |  |  | 12 |
| Comments: saildrone IRsonde |
| 13 | 222231515 | 1626 | 19.26 | 63.00 | 998 | 12054 | 10 |  | NE Eyewall | 13 |
| Comments: RMW NE |
| 14 | 222021294 | 1650 | 20.24 | 62.65 | 1010 | 09536 | 10 |  |  | 14 |
| Comments: IP3 NE |
| 15 | 221730339 | 1703 | 19.50 | 63.18 | 998 | 07562 | 10 |  | NE Eyewall | 15 |
| Comments: RMW NE |
| 16 | 222010120 | 1733 | 19.32 | 63.41 | 989 | 13511 | 10 |  | Center | 16 |
| Comments: Center Combo BT BT didn’t work  |
| 17 | 221640976 | 1737 | 19.58 | 63.41 | 997 | 04060 | 10 |  | N Eyewall | 17 |
| Comments: RMW N |
| 18 | 221950432 | 1815 | 20.70 | 63.64 | 1006 | 07525 | 10 |  |  | 18 |
| Comments: Spiral microphysics sonde at the top of the spiral 22,000’ T=-12C Pretty onion sounding  |
| 19 | 221830750 | 1846 | 20.21 | 63.68 | 1009 | 00514 | 10 |  |  | 19 |
| Comments: 2nd Spiral module and sonde |
| 20 | 221410021 | 1927 | 18.94 | 63.18 | 1005 | 18535 | 10 |  |  | 20 |
| Comments: EP S Combo AXBT labeled last report |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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** **#** |
| 21 | 221350537 | 2100 | 13.19 | 59.38 | 1009 | 08007 | 10 |  |  |  |
| Comments: MAGPIE sonde #1 |
| 22 | 222030349 | 2101 | 13.22 | 59.33 | 1010 | 09005 | 10 |  |  |  |
| Comments: MAGPIE sonde #2 |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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** **#** |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |
|  |  |  |  |  |  |  |  |  |  |  |
| Comments:  |