

Dropwindsonde Scientist Log

Storm:	Beryl	Flight ID:	20240705H1	Mission ID:	2202A	Takeoff:	HHMMZ	Landing:	HHMMZ
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Dropsonde Scientist(s):	Dunion, Kaplan	AVAPS Operator:	Katz
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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](#)).

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.

Storm: <<STORM NAME>>

Flight ID: <<YYYYMMDDA#>>

Mission ID: <<WXWXA>>

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	230351468	2157	23.066	89.301	1008.6	005/30	10			1
Comments: WP1 (N); flagged T and RH 0-7.0s (T drop/increase issue)										
2	230351450	221124	22.203	89.516	1004.4	045/35	10			3
Comments: mid-point (N-center); flagged T and RH 0-7.0s (T drop/increase issue)										
3	230650131	222217	21.456	89.423	997.8	110/22	10			4
Comments: Center; flagged T and RH 0-6.5s (T drop/increase issue)										
4	230340088	232832	21.574	89.597	997.9	115/22	10			5
Comments: Center; flagged T and RH 0-7.5s (T drop/increase issue)										
5	230450391	234134	22.050	90.504	1004.9	015/39	10			7
Comments: mid-point (center-NW); flagged T and RH 0-11.0s (T drop/increase issue)										
6	230650119	235238	22.319	91.248	1007.7	035/31	10			8
Comments: WP 4 (NW); flagged T and RH 0-8.5s (T drop/increase issue); set end at 278.50s (0 sats at bottom)										
7	230530846	001229	20.839	91.318	1007.9	005/25	10			9
Comments: WP 5 (SW); flagged T and RH 0-6.5s (T drop/increase issue); set end at 283.75s (0 sats at bottom)										

Storm: <<STORM NAME>>

Flight ID: <<YYYYMMDDA#>>

Mission ID: <<WXWXA>>

8	230931829	002445	21.270	90.525	1004.0	325/32	10			10
Comments: mid-point (SW-center); flagged T and RH 0-8.0s (T drop/increase issue); set end at 271.25s (0 sats at bottom)										
9	230351469	003619	21.754	89.797	999.1	105/27	10			11
Comments: Center; flagged T and RH 0-13.5s (T drop/increase issue); set end at 280.25s (0 sats at bottom)										
10	230340185	004906	22.231	88.939	1005.9	100/37	10			13
Comments: mid-point (center-NE) ; flagged T and RH 0-8.50s (T drop/increase issue); set end at 280.50s (0 sats at bottom)										

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11	230650052	010051	22.640	88.172	1008.7	095/26	10			14
Comments: WP 6 (NE) ; flagged T and RH 0-7.50s (T drop/increase issue); set end at 295.25s (0 sats at bottom)										
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