

Dropwindsonde Scientist Log

Storm:	Helene	Flight ID:	20240924H1	Mission ID:	0709A	Takeoff:	2012Z	Landing:	HHMMZ
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Dropsonde Scientist(s):	Jason Sippel/Brittany Dahl	AVAPS Operator:	Paul/Dykman
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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.

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	240610936	2155	20.49	-86.44	1002	030/32	10		NW End-point	1
Comments:										
2	233640113	2207	20.06	-85.64	999	040/39	10		NW Mid-point	2
Comments:										
3	233350145	2216	19.80	-85.05	991	110/04	10		Center	3
Comments:										
4	240610564	2229	19.34	-84.22	998	180/31	10		SE Mid-point	4
Comments:										
5	233340941	2239	18.97	-83.60	1001	155/31	10		SE End-point	5
Comments:										
6	233814579	2308	20.69	-83.77	1002	274/18	10			7
Comments:NE inbound end point. BT combo. Good sonde. Note: VDM ob 6 cca, no issues with ob 7..										
7		2320								-
Comments: NE inbound midpoint. No launch detect. No D file.										
8	233560228	2322	20.16	-84.70	996	282/20	10			8

Comments: NE inbound midpoint, backup for sonde 7. Good sonde.										
9	233640108	2333	19.62	-85.22	990	190/17	10		CENTER	9
Comments: Center 2. BT combo. Set end t = 244.75 s.										
10	233950567	2349	19.25	-86.19	1000	325/27	10			10
Comments: SW outbound mid point. Set end t = 248.00 s.										

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11	233640706	2355	18.96	-86.61	1001	345/21	10			11
Comments: SW outbound end point. BT combo. Good sonde.										
12	235051039	0020	18.13	-85.30	1001	260/23	10			12
Comments: S inbound end point. BT combo, bad BT. Set end t = 221.50 s. Winds at t= 221.25 s looked reasonable, so unflagged to get a 10 m wind.										
13	240610933	0032	18.94	-85.30	999	280/28	10			13
Comments: S inbound mid point. Good sonde.										
14	235124017	0042	19.63	-85.23	993	305/19	10		CENTER	14
Comments: Center 3. Good sonde.										

15	240530780	0053	20.42	-85.22	997	075/26	10			15
Comments: N outbound mid point. Set end t = 223.00 s.										
16	240520574	0109	21.51	-85.22	1003	065/35	10	30.8		18
Comments: N outbound end point. BT combo. Fast fall flag. Flagged winds up to t = 11.0, but everything below that seemed reasonable.										
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