

Dropwindsonde Scientist Log

Storm:	AL91	Flight ID:	20220830I1	Mission ID:	WDWXA	Takeoff:	1953Z	Landing:	0346Z
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Dropsonde Scientist(s):	Aberson	AVAPS Operator:	Warnecke
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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.

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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	213810382	203256	12.0044	-56.5064	1009.3	02015	10			1
Comments: 25% humidity at 7kft. 80% humidity at 11 kft										
2	213810384	204852	12.0068	-55.1555	1010.2	02016	10			2
Comments: 36% RH 6-8 kft										
3	212340592	210428	12.0068	-53.8208	1008.9	36016	10			3
Comments: > 70% RH below 10 kft										
4	213550742	211952	12.0004	-52.4897	1009.1	34509	10			4
Comments: entire profile > 60% RH										
5	211111675	213708	12.0044	-50.9893	1007.5	17502	10			5
Comments: post-splash data removed										
6	213830530	214900	12.0146	-49.9707	1008.6	23025	10			6
Comments: data dropout between 6 and 8 kft										
7	213830554	220452	12.8808	-48.9249	1008.5	20020	10			7
Comments:										
8	213570215	221508	13.6416	-48.5601	1008.5	18521	10			8
Comments:										
9	213830572	223420	15.0289	-48.3479	1008.6	17012	10			9
Comments: 4 m/s updraft just above 800 mb, interesting in skew-t										
10	213430250	224749	15.0304	-49.5191	1007.7	06005	10			10
Comments:										

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11	214220690	230507	15.0198	-51.0145	1007.9	01022	10			
Comments: inversion ~15 kft, very dry above										
12	213830566	232220	15.0566	-52.4966	1008.9	01025	10			11
Comments: 17% RH at 700 mb										
13	213550856	233232	15.8936	-52.5003	1010.4	02024	10			13
Comments:										
14	213830555	234255	16.7377	-52.4716	1010.1	02526	10			14
Comments: post-splash data										
15	213830587	000009	16.7612	-50.9836	1010.6	05022	10			15
Comments: strong downdraft at top of profile, probably erroneous										
16	213830024	001753	16.7494	-49.4928	1010.0	06523	10			16
Comments:										
17	213830571	003546	16.7780	-48.0121	1011.2	12018	10			17
Comments: >64% RH in entire profile										
18	213830487	004918	17.9005	-47.9045	1012.3	06027	10			18
Comments: fairly moist except above 500 mb										
19	213620520	010153	18.9883	-48.0285	1013.7	08025	10			19
Comments:										
20	213830556	012437	19.2690	-49.9877	1012.6	06023	10			20
Comments:										

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21	213830565	014742	19.0009	-52.0091	1013.2	04526	10			24
Comments:										
22	213550855	015750	19.0023	-52.9123	1013.5	04522	10			21
Comments: Saildrone 19 02 40N 052 57 37W sonde splash 18.99N 52.94W 7 n mi off										
23	213830563	021009	18.9788	-54.0010	1012.8	07517	10			22
Comments:										
24	213830020	022059	18.1233	-54.3808	1011.9	04017	10			23
Comments: rapidly varying wind velocity above about 14 kft, but not a fast fall. ASPEN cleared it all up.										
25	213830558	022219	18.0167	-54.4270	1013.3	03521	10			25
Comments: replacement because we thought previous sonde was a fast fall										
26	213830531	023212	17.2422	-54.7603	1012.5	04024	10			26
Comments:										
27	213830533	024323	16.3697	-55.1321	1011.4	04018	10			27
Comments:										
28	213830562	025431	15.4981	-55.5091	1011.6	04027	10			28
Comments:										
Comments:										
Comments:										