

## Dropwindsonde Scientist Log

<b>Storm:</b>	AEW/MAGPIE	<b>Flight ID:</b>	20240713I1	<b>Mission ID:</b>	WAWXA MAGPIE 01	<b>Takeoff:</b>	1426Z	<b>Landing:</b>	HHMMZ
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<b>Dropsonde Scientist(s):</b>	Sippel	<b>AVAPS Operator:</b>	Dykeman
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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: &lt;&lt;MAGPIE01&gt;&gt;

Flight ID: &lt;&lt;20240713I1&gt;&gt;

Mission ID: &lt;&lt;WAWXA&gt;&gt;

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	222350026	1458	13.2	-59.35	1015	075/17	10			1
Comments: set end of drop at 229.5, post splash data										
2	222010087	1508	13.39	-58.8	1015	065/20	10			2
Comments:										
3	222060089	1519	13.59	-58.2	1016	085/18	10			3
Comments: set end of drop time at 223.0; post-splash data. missing data from about 925 hpa to 975 hpa										
4	221430152	1530	13.80	-57.58	1016	080/18	10			4
Comments:										
5	222030356	1540	14.00	-57.00	1016	080/20	10			5
Comments:										
6	222520329	1621	14.36	-56.67	1016	075/19	10			6
Comments:										
7	222060088	1627	14.84	-56.70	1015	075/21	10			7
Comments:										

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8	221721270	1634	15.39	-56.70	1015	080/20	10			8
Comments:										
9	222330570	1640	15.93	-56.70	1016	075/15	10			9
Comments:										
10	221840071	1647	16.47	-56.70	1016	075/16	10			10
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 #
11	222010093	1653	17.00	-56.76	1015	070/27	10			

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Comments:										
15	233641221	1734	17.03	-60.36	1016	065/15	10			15
Comments: first minisonde										
16	233640818	1745	17.00	-61.30	1016	080/12	10			16
Comments:										
17	233641236	1754	17.00	-62.12	1015	090/14	10			17
Comments:										
18	233460693	1806	17.00	-63.16	1015	085/15	10			18
Comments:										
19	233630622	1817	17.00	-64.09	1015	085/17	10			19
Comments:										
20	233340895	1827	17.00	-65.00	1016	090/14	10			20
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 #
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21	233640530	1909	15.60	-62.01	1014	125/14	10			21
Comments:										
22	233350124	1912	15.76	-61.90	1014	090/17	10			22
Comments:										
23	233640829	1916	15.44	-61.76	1014	055/15	10			23
Comments:										
24	233221007	1920	15.15	-61.63	1014	085/22	10			24
Comments:										
25	233350146	1923	14.92	-61.53	1014	055/19	10			25
Comments:										
26	233641259	1927	14.59	-61.40	1014	100/15	10			26
Comments:										
27	233560246	1930	14.31	-61.42	1013	085/16	10			27
Comments:										
28	233350180	1934	13.97	-61.47	1014	070/16	10			28

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Comments:										
29	233560364	1937	13.70	-61.50	1013	065/17	10			29
Comments: QC'd out temperature through 10.5s										
30	23356024	1944	13.19	-61.50	1013	050/10	10			30
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 #
31	233460211	1954	13.26	-62.17	1012	075/21	10			31
Comments: RH sensor failed on this drop										
32	233641235	1955	13.27	-62.24	1013	075/20	10			32
Comments: QCd out first few seconds of temperature										
33	233640187	1959	13.32	-62.59	1013	105/09	10			33
Comments: QCd out temperature through 8s										
34	233630648	2004	13.69	-62.58	1012	070/17	10			34
Comments: QCd out temperature through 7.5s										

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35	233630610	2011	13.70	-62.04	1013	070/17	10			35
Comments: QCd out temperature through 9.0s										
36	233560355	2018	13.70	-61.53						
Comments: late launch detect - sonde severely messed up, so we did not process or transmit										
Comments:										
Comments:										
Comments:										
Comments:										