

## Dropwindsonde Scientist Log

<b>Storm:</b>	Milton	<b>Flight ID:</b>	20241008H1	<b>Mission ID:</b>	1714A	<b>Takeoff:</b>	HHMMZ	<b>Landing:</b>	HHMMZ
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<b>Dropsonde Scientist(s):</b>	Dunion	<b>AVAPS Operator:</b>	Dykeman/Keller
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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	233541316	214133	24.262	86.514	995.9	070/30	10			01
Comments: IP (WP 1 NE of center); set end at 205.75s (0 sats at bottom)										
2	233251075	215510	23.448	86.900	991.0	100/32	10			02
Comments: WP1-Ctr midpoint; noisy data w/ lots of sat dropouts; Dfile has no header- FD emailed the "P" file and I was able to process										
3	234220763	220427	22.9176	87.206	933.2	360/122	10		RMW NE	04
Comments: WP 1-Center RMW; flagged RH 170s to surface...suspect too low;										
4	233541320	220559	22.823	87.242	904.5	215/17	10		CENTER	05
Comments: WP 1-2 center;										
5	234220084	220721	22.744	87.279	926.4				RMW NE	X
Comments: Center-WP2 RMW #1; fast fall...perhaps recovered at ~900 mb...flagged all winds; flagged RH 845.3 mb and below;										
6		220736							RMW NE	X
Comments: Center-WP2 RMW #2; constant sat drop outs...ugly										
7		220749							RMW NE	X
Comments: Center-WP2 RMW #3; no Dfile header info...can't process										
8	235144589	221624	22.260	87.590	991.7	280/39	10			06

Comments: Ctr-WP2 midpoint; set end at 187.50s (0 sats at bottom)										
9	234830541	222719	21.670	87.830	996.3	270/26	10			07
Comments: WP 2 (SW)										
10	234850638	224809	21.552	86.288	997.4	215/35	10			08
Comments: WP 3 (SE)										

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11	235134469	225719	22.096	86.604	993.9	220/41	10	28.8		09
Comments: WP3 (SE)-Ctr midpoint; set end at 193.00s (22 sats at bottom)										
12		225847							RMW SE	X
Comments: WP3- Center RMW #1; set end at 838.50s - likely early launch detect - I'm now 150 sondes behind and skipping this tricky QCing - this one needs TLC										
13	235144591	231024	22.847	87.00	927.4	155/160	10		RMW SE	10
Comments: WP 3 (SE) - Center RMW #2;										
14	233950710	231041	22.859	87.006	917.7	185/136	10		RMW SE	X
Comments: WP3 (SE) - Center RMW #3; set end at 155.75s (0 sats at bottom); only sending Drop 3 RMW since TAG will not accept 2 drops with the same HHMM										

15	233950710	231216	22.951	87.028	909.6	340/23	10	24.5	CENTER	11
Comments: WP 3-4 center; set end at 144.00s (0 sats at bottom)										
16	234830504	231337	23.032	87.070	N/A	42/128	N/A		RMW NW	X
Comments: Center-WP 4 (NW) RMW; data dropped out after ~200 m;										
17	235154185	232439	23.665	87413	992.3	010/49	10	25.8		13
Comments: Ctr-WP 4 (NW) midpoint; SST came in late (240 s)										
18	235154186	233617	24.247	87.965	997.5	050/34	10			15
Comments: WP 4 (NW); set end at 144.00s (0 sats at bottom)										
19	235144590	235731	23.023	88.516	997.3	345/32	10			16
Comments: WP 5 (W);										
20	235144634	000656	23.028	87.778	993.1	355/41	10			17
Comments: WP5 (W)-Ctr midpoint;										

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21	234220154	001911	23.076	86.902	932.9	315/129	10		RMW W	18

Comments: WP5 (W)-Ctr RMW										
22	235154002	002025	23.086	86.811	913.2	085/03	10		CENTER	19
Comments: WP 5-6 center;										
23	235154019	002210	23.086	86.686	940.9	090/132	10		RMW E	20
Comments: Ctr-WP 6 RMW										
24	233640846	003351	23.035	85.862	992.5	165/49	10			21
Comments: Ctr-WP6 (W) midpoint;										
25	233814451	004536	23.030	84.968	996.6	170/37	10			22
Comments: WP 6 (E);										
26	233541314	013014	23.9956	87.062	993.7	025/42	10			23
Comments: back toward center ASWD intercept; set end at 178.50s (24 sats at bottom); LAST REPORT										