Dropwindsonde Scientist Log

Storm:	MILTON	**Flight ID:**	20241007H1	**Mission ID:**	1014A	**Takeoff:**	2005Z	**Landing:**	HHMMZ

Dropsonde Scientist(s):	Dahl	**AVAPS Operator:**	Dykeman/Keller

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	233814594	215410	22.6568	-89.0054	1000	085/26	10	-		01
Comments: NE IP. Set end t = 258.75 s.										
2	233340902	220705	22.2554	-89.8456	996	140/27	10	-		02
Comments: NE MP. Set end t = 252.75 s.										
3	233814615	221907	21.8936	-90.6168	931	315/161	10	-	EYEWALL NE	04
Comments: NE RMW. Set end t = 341.75 s. Quite dry at top of sonde. Went halfway around the storm! May be a record WL150. (Note: VDM OB 3)										
4	233550055	222016	21.8936	-90.6168	899	220/24	10	-	CENTER	05
Comments: Center. Good sonde.										
5	233560373	222123	21.8187	-90.7423	945	225/120	10	-	EYEWALL SW	06
Comments: SW RMW outbound. Updraft near bottom.										
6	233410818	222134	21.8143	-90.7507	-	-	-	-	EYEWALL SW	-
Comments: SW RMW outbound. Fast fall flag, sonde quit transmitting after 94.25 s. Not transmitted.										
7	234220151	222147	21.8091	-90.7608	958	270/116	10	-	EYEWALL SW	-
Comments: SW RMW outbound. Fast fall flag, but dz/dt doesn't look suspect to me. TAG wouldn't take it because of time stamp. Not transmitted.										
8	233560376	223254	21.4414	-91.4456	997	325/37	10	-		07

Comments: SW mid outbound. Set end t = 242.50 s.										
9	234220179	224602	20.9855	-92.2863	1002	325/31	10	-		08
Comments: SW endpoint outbound. Set end t = 251.75 s.										
10	234310880	230729	20.1323	-90.8908	1001	275/35	10	-		09
Comments: S endpoint inbound. Good sonde.										

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11	233140594	232157	20.9967	-90.6466	997	280/37	10	-		10
Comments: S midpoint inbound. Post-splash warning. Set end t = 196.00 s.										
12	233950661	233413	21.7739	-90.4952	-	250/147	1506	-	EYEWALL S	11
Comments: S RMW inbound. Sonde encountered strong updrafts. Stopped transmitting at t = 46.25 s,, did not hit surface.										
13	234150032	233529	21.8503	-90.4932	904	320/31	10	-	CENTER	12
Comments: Center. Fast fall warning. End of drop t = 99.00 s. Flagging winds before t = 55.00 s to be cautious, but didn't look like an obvious fast fall case to me.										
14	233814440	233630	21.9075	-90.4941	932	335/133	10	-	EYEWALL N	-
Comments: N RMW 1. Turbulent. Not transmitted due to TAG.										

15	234220962	233645	21.9195	-90.4942	935	325/159	10	-	EYEWALL N	14
Comments: N RMW 2. Strongest winds of the RMW triplet, **transmit this one.** Set end t = 192.25 s. (Note: VDM OB 13)										
16	233950708	233654	21.9268	-90.4942	940	325/136	10	-	EYEWALL N	-
Comments: N RMW 3. Set end t = 195.25 s (increasing alt, sat dropout). Not transmitted due to TAG.										
17	233251077	234936	22.7039	-90.6535	997	025/40	10	-		15
Comments: N midpoint outbound. Set end t = 189.75 s.										
18	234220083	000202	23.4792	-90.6473	1001	040/24	10	-		16
Comments: N endpoint outbound. Good sonde.										
19	234220122	002535	22.6598	-91.7152	1001	040/29	10	-		17
Comments: NW IP inbound. Set end t = 195.50 s. AVAPS operator reports late winds. Wind data present, but almost all flagged by ASPEN except for lowest part of sonde. Going to leave those flags alone. N sats less than other sondes, 5-6.										
20	233541323	003428	22.3249	-91.1245	998	010/47	10	-		18
Comments: NW mid inbound. Set end t = 197.50 s.										

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21	233541312	004639	21.8754	-90.3787	941	295/131	10	-	EYEWALL NW	19

Comments: NW RMW inbound. Humidity dropouts. Very turbulent.										
22	23351330	004750	21.8470	-90.3045	911	075/30	10	-	CENTER	20
Comments: Center. Set end t = 136.75 s.										
23	233667951	004940	21.8485	-90.1882	952	090/93	10	-	EYEWALL E	21
Comments: E RMW outbound. Good sonde.										
24	233141023	005945	21.9288	-89.4939	996	140/35	10	-		23
Comments: E MP outbound. Set end t = 196.50 s. (Note: VDM OB 22)										
25	233251058	011216	21.9340	-88.5648	999	150/18	10	-		24
Comments: E endpoint outbound. Good sonde.										
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