

Dropwindsonde Scientist Log

Storm:	MILTON	Flight ID:	20241009H1	Mission ID:	2114A	Takeoff:	2034Z	Landing:	HHMMZ
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Dropsonde Scientist(s):	Dahl	AVAPS Operator:	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	233541327	214015	28.7733	-83.2677	1002	040/47	10	-		01
Comments: N IP. Post-splash warning artifact due to sat dropouts. Dropouts start cropping up about halfway down. QC performed well. Blackswift S0 sUAS turned on before sonde launch.										
2	234220963	215217	27.9171	-83.2701	988	025/72	10	-		02
Comments: N MP inbound. Fewer sat dropouts. S0 still on.										
3	233640112	220605	27.0233	-83.1413	953	165/15	10	28.5	CENTER	03
Comments: Center. BT combo. BT only gave one data point of 28.5 C. S0 deployed 2206Z. Post-splash warning artifact from sat dropouts. QC good.										
4	233640826	222007	26.2411	-83.0143	983	270/50	10	-		05
Comments: S MP outbound. Post-splash warning. Set end t = 215.25 s. Sat dropouts made QCing bottom of sonde a little sketchy, but surface data agrees with other MP. (Note: VDM OB 04)										
5	234220164	223552	25.2922	-83.0317	998	265/44	10	-		06
Comments: S EP. Set end t = 247.50 s. Updraft near surface. Less sat noise.										
6	234220155	225046	25.6947	-81.9879	995	215/49	10	-		07
Comments: Begin coastal run about 12 nmi out. SE IP. Sat noise comparable to D5. S0 splashed after this sonde, off at 2300Z.										
7	234220160	225720	26.0803	-82.2338	993	225/39	10	-		08
Comments: SE inbound intermediate 1. Sat dropouts subsided partway down sonde, seems to coincide with shutoff time of s0. Set end t = 194.75 s.										
8	233950703	230436	26.4908	-82.5382	982	230/59	10	-		09

Comments: SE MP inbound. Set end t = 184.50 s. Clean sats throughout sonde after equilibration, except for very last data point.										
9	234220229	231226	26.8787	-82.8846	959	255/42	10	-		10
Comments: SE intermediate 1 inbound. Set end t = 167.25 s.										
10	234150036	232034	27.3704	-83.1162	970	360/97	10	-		11
Comments: Intermediate drop 2 inbound. Good sonde.										

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11	234220231	232822	27.8036	-83.4164	990	360/61	10	-		12
Comments: Third Intermediate drop. Good sonde.										
12	234920771	233713	28.1075	-83.9277	998	030/49	10	-		13
Comments: NW outbound Intermediate. Set end t = 185.25 s.										
13	233631969	234411	28.3323	-84.3701	998	050/54	10	-		14
Comments: NW outbound endpoint. Good sonde.										
14	234220168	235642	27.4772	-84.4998	998	030/44	10	-		15
Comments: SW side, drifter drop 1. Good sonde.										

15	233824557	235648	27.4592	-84.4987	998	035/55	10	-		-
Comments: SW side, drifter drop 2. One sat dropout near bottom, otherwise good. Unable to transmit due to TAG timestamp bug.										
16	233814611	011158	26.4908	-83.6537	994	350/39	10	-		16
Comments: SW side. Post-splash warning, set end t = 202.25 s. End of science.										
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