Dropwindsonde Scientist Log

Storm:	Milton	**Flight ID:**	20241007I1	**Mission ID:**	0714A	**Takeoff:**		**Landing:**	

Dropsonde Scientist(s):	Kaplan	**AVAPS Operator:**	

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.

0714torm: <<Milton>> **Flight ID: <<241007I1>>** **Mission ID: << 0714A**

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	233950694	0955	23.80	92.45	1004.9	50/25	10			1	
Set end of drop at 229.75.											
2	233550054	1007	22.90	92.45	1001.7	37/34	10			2	
3	233950672	1021	21.86	92.44	955	205/12	10		center	4	
4	233814619	1030	21.31	92.53	996	260/37	10			5	
5	233950695	1045	20.18	92.62	1003	250/31	10			6	
Set End of drop at 238.75.											
6	233950678	1110	20.80	90.97	1002.2	219/24	10			7	
7	233540556	1124	21.37	91.70	996.9	205/42	10			8?	
8	23381459	1133	21.72	92.14	956.1	190/90	10		Eyewall SE	10	
9	233814439	1135	21.78	92.24	949.2	05/24	10		center	12	05/24
End of drop 0.5 earlier than ASPEN default											
10	233541305	1136	21.83	92.36	966.6	320/96	10		Eyewall NW	13	
End of drop at 186.25											
11	233814441	1149	22.23	93.09	1000.2	19/39	10			14	

12	233540566	1201	22.59	93.76	1004.6	10/28	10			15
13	233640694	1222	21.15	93.65	1004.3	322/23	10			16
14	233640669	1233	21.42	92.90	999.8	329/39	10			17
15	233640126	1249	21.65	92.08	M			Eyewall	SW	19
Set heights missing. Bad RH. Winds looked fine.										
16	233410820	1251	21.75	91.99	941.2	154/12	10	Center		20
17	233950658	1253	21.79	91.89	961.3	80/105	10	Eyewall	NE	21
18	233560360	1306	22.03	90.94	999.8	158/25	10			22
19	233814519	1316	22.15	90.23	1002.3	139/28	10	Last report		23
Set End of drop at 199.75										
