

Dropwindsonde Scientist Log

Storm:	Milton	Flight ID:	20241009I1	Mission ID:	1914A	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.

19140714form: <<Milton>>

Flight ID: <<24100911>>

Mission ID: << 1914A

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	233950593	0923	24.47	87.63	999.9	340/29	10			1
Set End of drop at 197.5										
2	233950663	1004	25.59	86.40	993.3	04/44	10			2
3	233950592	1023	24.70	85.00	917.5	175/41	10		Center	3
End of drop at 168.5										
4	233950659	1036	24.69	84.15	989.5	144/50	10			4
End of drop at 197.25										
5	233950664	1049	24.69	83.21	997.3	156/35	10			6
6	X	1120								X
No Launch detect. Not processed/sent.										
7	233950675	1121	26.22	84.80	994.8	38/31	10			7
Back up sonde. Set end of drop at 195.75.										
8	233814600	1131	25.58	84.77	987.5	74/33	10	28.2		8
9	233950670	1143	24.92	84.77	930.6	211/103	10		Eyewall SE	9
This was supposed to be a center drop but storm was tilted so it ended up being near or in the eyewall and was coded/sent as such.										
10	233950700	1157	24.10	84.76	992.5	235/40	10			10
11	233814636	1212	23.16	84.76	998.9	243/36	10			12

19140714torm: <<Milton>>

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12	233950671	1235	23.95	83.36	999.2	203/45	10			13
13	233814526	1246	24.44	83.98	993.5	191/45	10			14
14	233950649	1302	25.23	84.67	946	237/90	10		Close to center	15
This was also supposed to be a center drop but due to tilt of vortex that did not happen. No designation as to its location was made in WMO message.										
15	233814545	1316	25.77	85.39	990.2	360/58	10			16
16	233950702	1328	26.29	86.03	998.4	27/39	10			17
Set end of drop at 195.0. RH below 950 mb suspicious but left values in anyway.										
17	233950668	1414	24.43	85.60	997.9	323/33	10			18
18	233950674	1424	24.94	85.07	991	314/40	10			19
19	233814635	1438	25.74	84.43	932.4	204/7	10	26.3	center	20
20	233950656	1455	25.70	85.55	994.6	349/51	10	28.4		22
21	233950590	1506	25.69	86.31	999.0	11/29	10		Last report	23

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