Dropwindsonde Scientist Log

Storm:	HELENE	**Flight ID:**	20240925I1	**Mission ID:**	1009A	**Takeoff:**	09 ? z	**Landing:**	Z

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.

Storm: <<FRANCINE>> **Flight ID: <<240910I1>>** **Mission ID: << 1006A>>**

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	233241055	1037	22.42	85.41	997.4	62/42	10			1
2	231830027	1050	21.61	85.93	990.7	66/53	12			2
Set end of drop @ 173.5										
3	233550049	1059	21.03	86.19	x	x	x			X
Bad sonde. T and RH definitely bad and probably winds. Sonde not sent.										
4	233241056	1114	20.12	86.52	996.4	279/35	10			4
Set end of drop at 194.5										
5	233140491	1126	19.46	86.97	999.8	271/29	10			5
Post splash data warning but not post-splash data seen.										
6	233241105	1143	19.54	85.48	997.6	248/26	10			6
Set end of drop @199.25										
7	233150166	1155	20.33	86.06	993.7	253/40	10			7
Set t and td missing from 6-10 s.										
8	233241032	1209	21.12	86.14	981	18/4	10			8
Center sonde. But didn’t get save properly in ASPEN so it didn’t have center in message when sent out. Resent the obs as a corrected obs no 8.										
9	233140640	1223	22.09	86.38	994	50/41	10			10
Winds a little noisy on drop.										
10	233150159	1235	22.90	86.61	999.9	57/38	10			11

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11	233140589	1254								12
12	233140642	1324	21.27	86.13	981.4	279/9kt	10			13
Center drop. Make sure it's marked and saved as center and check before submitting for center designation in wmo message.										
13	233140638	1338	21.02	85.14	994.4	192/44	10			14
14	233241090	1347	20.82	84.49	999.1	163/34	10			15?
15	233140593	142456	21.83	85.78	987.7	120/44	10			17
Max windband sonde. Set end of drop at 182.0										
16	233141069	142646	Bad sonde not processed or sent							
		1442 Bad Sonde not processed or sent								
17	233140855	1446	22.86	84.66	999.7	96/48	10			18
Last report										