Dropwindsonde Scientist Log

Storm:	TDR	**Flight ID:**	20240924I1	**Mission ID:**	0409A	**Takeoff:**	0809 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: <<240924I1>>** **Mission ID: << 0409A>>**

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	231830076	0942	20.46	80.05	1003.2	82/24	10	30.5		1
2	233241088	0955	83.48	19.75	1001.8	63/16	10			2
Set end of drop to 248.25										
3	233150160	1003	19.39	83.01	1001.4	188/20	10			3
Changed end of drop to 245.0										
4	233150158	1016	18.88	82.28	1004.0	154/29	10			4
Set end of drop at 240.25										
5	233241091	1028	18.22	81.88	1004.4	148/29	10			5
Winds were noisy near top above 740 mb but ASPEN flagged them. Winds looked okay below that level so winds were sent as is below that level.										
6	233550503	1050	19.63	81.30	1006.8	122/28	10			6
7	233150168	1111	19.42	82.26	1004.9	147/26	10			7
Set end of drop at 234.75										

8	231830021	1126	19.63	83.42	1001.2	210/13	10			8
9	231821653	1140	19.71	84.46	1003.4	37/19	10			9
10	233140462	1147	19.69	85.05	1003.2	34/19	10			10
Set t and Td mission down to 9 sec.										

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 #
11	233140744	1210	18.24	84.46	1003.7	295/10				11
12	233140650	1222	18.86	83.79	1002.9	305/17	10			12
Set end of drop at 243.75. Sfc p 1002.9										
13	233241089	1233	19.49	83.44	1002.3	159/6	10			13

14	233150229	1250	20.39	82.92	1004.8	129/42	10			14
WL 150 130/43 kt.										
15	233140457	1301	20.90	82.38	1007.3	115/22	10			15
ASPEN noted that the sonde contained post splash data which appeared to be correct. Thus, the end of drop was set at 251.25										