

Dropwindsonde Scientist Log

Storm:	HELENE	Flight ID:	2024092611	Mission ID:	1509A	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.

Storm: <<FRANCINE>>

Flight ID: <<24092611>>

Mission ID: << 1509A>>

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	233331511	1018	24.40	84.22	991.6	144/48	10			1
2	233241103	1031	x	x	x	x	x	x		x
Bad sonde. Not sent										
3	231830075	1042	24.45	85.97	964.2	338/8	10		Center	2
Set end time 0.5 s less than last time in file.										
4	232010025	1056	24.42	86.95	985.3	323/48	10	29.5		4
5	233241029	1108	24.38	87.76	992.7	329/34	10			5
6	233150006	1145	22.96	85.90	994.4	234/38	10			6
7	233150162	1157	23.8	85.89	985.0	239/52	10	29.7	Midpoint	8
8	232320013	1202	24.13	85.89	977.9	251/56	10		RMW south	9
9	233560223	1204	x	x	x	x	x	x	x	x
Near Wave drifter. BAD sonde. Not sent.										
10	233140634	1204	24.24	85.89	975.7	249/65	10		x	
Not initially seen/processed during mission. Processed afterward and data appears to be good.										
11	233560226	1213	24.86	85.80	964.0	130/10	10		Center	10

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12	233150248	1218	25.23	85.80	974.3	74/55	10		RMW	11
13	233140853	1225	25.70	85.80	985.9	76/44	10		Midpoint N	12
14	233241117	1236	26.49	85.81	992.3	103/32	10		endpoint	13
15	233121174	1253	26.21	87.00	994	30/34	10		NW IP3	14
16	233241081	1306	25.63	86.33	986.5	37/39	10			16
17	233140472	1315	25.25	85.87	968.6	64/35	10		NW eyewall	17
Set end of drop at 169.75										
18	233140652	1318	25.11	85.68	964	80/16	10		Center	18
Set end of drop at 180.75										
19	233140489	1327	24.69	85.19	971.8	187/70	10		NE eyewall	19
20	233140652	1332	24.48	84.97	981.8	193/66	10		Midpoint	20
21	231830067	1344	23.92	84.37	995.1	189/49	10		Endpoint	21

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22	233140854	1417	26.66	84.28	993.2	139/50	10	NEIP	22
23	233140474	1428	26.07	84.80	986.4	118/65	10	Midpoint NE	23
24	233550061	1434	25.76	85.03	974.8	97/50	10	RMW NE	24
25	233560357	1442	25.37	85.38	964.9	220/15kt	34	Center	25
26	233241119	1446	25.15	85.62	971.7	279/56	10	RMW SW	26
27	233550056	1457	24.71	86.11	987.1	275/47	10	Midpoint S	27
28	233241083	1512	24.09	86.88	995.4	292/38	10	SW endpoint	28