

Dropwindsonde Scientist Log

Storm:	AL02/Beryl	Flight ID:	20240701H1	Mission ID:	0702A	Takeoff:	2204Z	Landing:	HHMMZ
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Dropsonde Scientist(s):	Dahl/Hazelton	AVAPS Operator:	Lynch
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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: AL02/BERYL

Flight ID: 20240701H1

Mission ID: <<WXWXA>>

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	221210160	2305	14.60N	62.68W	1008.5	105/41	10	-	-	1
Comments: Endpoint NE, 5-8 m/s updraft										
2	221210162	2316	14.07N	63.24W	1005.2	110/50	10	-	-	2
Comments: Midpoint NE, Post Splash, 272.5 Time										
3		2326								X
Comments: RMW NE,										
4		2326								X
Comments:										
5	22121063	2327	13.54	63.80W	963.5	80/140	10		Eyewall NE	3
Comments: RMW NE,										
6	221470784	2330	13.40	63.96	939.8	250/23	10	-	Center	4
Comments: Post Splash, 235.5										
7		-							Eyewall SW	X
Comments: Lost Data, RMW SW										

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8 221470785 4/P 4t 8 refit from BT.002 Tw 5.4534741.7037 g.0821470785

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14	221810088	0036	13.69N	64.37W	964.4	320/102	10	-	Eyewall NW	12
Comments: RMW NW										
15	221210039	0046	14.29N	64.74W	1005.3	045/37	10	-	-	13
Comments: Mid NW										
16	221420390	0057	14.96N	65.21W	1009.2	070/31	10	-	-	15
Comments: End NW										
17	221470684	0131	12.71N	65.54W	1008.0	320/17	10	-	-	16
Comments: Endpoint SW										
18	221210158	0140	13.13N	65.11W	1005.6	300/27	10	-	-	17
Comments: Midpoint SW, Post Splash Data, 288.5 EOD										
19	221830357	0150	13.65N	64.62W	943.7	225/34	10	-	-	18
Comments: RMW SW, splashed in the eye										
20	221810059	0150	13.69N	64.60W	939.5	170/20				19
Comments: Center, Post Splash, 222.0 EOD										

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21	221410016	0153	13.83N	64.47W	-	-	622		Eyewall NE	21
Comments: RMW NE, did not hit surface, 90 m/s in PBL. Switched from TAG to aircraft-based processing at this point due to TAG data transmission problem.										
22	221430155	0203	14.27N	63.92W	1006	105/53	10	-		22
Comments: Midpoint NE										
23	221810079	0215	14.78N	63.30W	1010	100/35	10	-	-	23
Comments: Endpoint NE										
24	221010351	0254	14.99N	66.15W	1010	055/31	10	-	-	24
Comments: Endpoint NW										
25	221420514	0305	14.47N	65.62W	1006	050/42	10	-	-	25
Comments: Midpoint NW										
26	221830437	0316	14.01N	65.12W	956	285/97	10	-	Eyewall	26
Comments: RMW NW, 13 m/s updraft										
27	221420387	0318	13.95N	65.05W	939	130/27	10	-	Eye	27
Comments: Center										

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28	214210393	0320	13.83N	64.93W	963	121/19	10	-	Eyewall	29
Comments: RMW SE, ASPEN incorrectly said there was post-splash data. 88 m/s at 180 m altitude.										
29	222520391	0329	13.54N	64.47W	1006	175/45	10	-	-	30
Comments: Midpoint SE										
30	221470779	0344	13.01N	63.93W	1011	155/19	10	-	-	31
Comments: Endpoint SE										

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 #
31	221470780	0433	15.36N	64.37W	1009	080/37	10	-	-	32
Comments: Endpoint NE, removed post-splash data										
32	222350117	0443	14.85N	64.88W	1006	095/57	10	-	-	33
Comments: Midpoint NE										
33	221810074	0456	14.24N	65.45W	946	051/07	10	-	Eyewall	34
Comments: RMW NE										
34	221830436	0458	14.17N	65.56W	939	225/05	10	-	Eye	35

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Comments: Center										
35	221830355	0500	14.28N	65.70W	959	306/07	10	-	Eyewall	36
Comments: RMW NW										
36	221830430	0510	14.81N	66.13W	1005	055/33	10	-	-	37
Comments: Midpoint NW										
37	221830358	0522	15.53N	66.64W	1009	065/34	10	-	-	39
Comments: Endpoint NW										
Comments:										
Comments:										
Comments:										