Dropwindsonde Scientist Log

Storm:	BERYL	**Flight ID:**	20240703H1	**Mission ID:**	1602A	**Takeoff:**	1927Z	**Landing:**	HHMMZ

Dropsonde Scientist(s):	Dahl/Dunion	**AVAPS Operator:**	Lynch

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.

Ob #
01

8	221830570	232040	17.57	-76.74	1009	145/29	10	-	-	09
Comments: Endpoint E. Late launch detect. Spike in dz/dt at lauch, flagged all data up through t=4.00 s. Post-splash data detected, set end t=228.50 s.										
9	221830745	232934	17.69	-77.43	1006	130/33	10	-	-	10
Comments: Midpoint E. Set end t=208.25 s.										
10	221430463	233913	17.78	-78.13	978	150/62	10	-	Eyewall E	11
Comments: RMW E. Bad T equilibration, flagged T/RH through t=9.50 s. Set end t = 215.75 s. Had to CCA for missing eyewall tag.										

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		2342	17.82	-78.33	962	300/07	10	-	Eye	12
Comments: Center drop. Bad sats near top, flagged all data through t = 18.50 s. Set end t = 193.25 s.										
12		234350	17.821	78.427	978	290/81	10	-	Eyewall W	13
Comments: RMW: center-W.										
13	221430449	235559	17.852	79.332	1005	030/49	10	-	-	14
Comments: midpoint: center-W. Bad sats near top, flagged all data through t=10.00 s. Strong downdraft ~900 mb.										
14	221410039	000523	17.853	80.066	1008	050/32	10	-	-	15

Comments: West waypoint (WP 4). Post splash detected, set end t=231.50 s. Jump in dz/dt at top, flagged all data through t = 3.00 s.										
15	22140389	002834	16.529	-79.520	1008	010/13	10	-	-	16
Comments: SW IP (WP 5). Set end t = 236.25 s. Bad t equilibration, flagged T/RH through t = 6.50 s.										
16	221220354	003932	17.166	-79.139	1006	345/12	10	-	-	17
Comments: midpoint (SW-center). Post splash detected, set end t = 219.25 s. Flagged data up to t =32.50 s for dz/dt weirdness.										
17	221410192	005119	17.821	-78.611	970	200/47	10	-	Eyewall SW	18
Comments: RMW SW. Flagged data through t = 1.50 s due to sat dropout. Set end t = 219.50 s.										
18	221450318	005241	17.920	-78.604	964	170/23	10	-	Eye	19
Comments: Center. Set end t = 224.75 s. Flagged data through t = 3.50 s due to jump in dz/dt.										
19	221450320	005457	18.085	-76.622	973	010/107	10	-	Eyewall NE	21
Comments: RMW NE. Good sonde. ** VDM ob = 20, edit WMO.txt										
20	221450321	010452	18.716	-78.502	1007	060/48	10	-	-	22
Comments: Midpoint NE. Set end t = 226.00 s.										

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21	221470778	011714	19.411	-78.138	1011	100/40	10	-	-	23
Comments: Endpoint NE. Set end t = 221.00 s. Mark last report.										
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Storm: BERYL **Flight ID: 20240703H1** **Mission ID: 1602A**

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