

Dropwindsonde Scientist Log

Storm:	ERNESTO	Flight ID:	2024081611	Mission ID:	WD05A	Takeoff:	1244	Landing:	HHMMZ
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Dropsonde Scientist(s):	Ko	AVAPS Operator:	Keller
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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.

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	231741345	1437	29.09	-68.14	1001	320/33	10		IP W	1
Comments: no manual qc										
2	230620787	1447	29.15	-67.39	993	320/41	10		MP W	2
Comments: no manual qc										
3	225024546	1454	29.19	-66.76	976	300/49	10			3
Comments: This sonde was dropped between rmw and center.										
4	230610036	1500	29.51	-66.49	969	140/14	10		center/eye	4
Comments: combo										
5	233560227	1508	29.68	-65.95	978	130/70	10		RMW E	5
Comments: set end time 2 frame up (marked as EYEWALL)										
6	230710562	1510	29.75	-65.77	984	125/71	10		MP E	6
Comments: set end time at 164.00										
7	233461007	1522	30.08	-64.95	1001	140/56	10		EP E	8
Comments: set end time at 181.50										
8	230710626	1534	30.92	-65.52	1007	080/32	10		IP2 NE	9

Comments: no manual qc										
9	233658534	1544	30.34	-65.90	994	100/67	10		MP NE	10
Comments: no manual qc										
10	233550539	1550	30.05	-66.04	982	095/47	10		RMW NE	11
Comments: did not mark eyewall (wind lower than MP)										

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11	230710649	1557	29.63	-66.24	969	275/03	10		center/eye	12
Comments:										
12		1610								
Comments: bad drop: bad dew point possibly due to oversaturation? Not sending this sonde.										
13	230530840	1611	28.83	-66.76	994	265/67	10		MP SW	14
Comments: ignore T and RH for additional 1 sec (7 sec in total).										
14	233540555	1617	28.52	-66.97	1001	255/46	10		EP SW	15
Comments: set end drop time a frame up (201.00)										

15	233540567	1623	28.41	-66.62	1000	245/44	10			16
Comments: HRD S0 combo drop ; post-splash sonde detected. set end time at 206.00										
16	232320063	1638	28.53	-65.28	1002	195/57	10		IP3 SE	17
Comments: ignore T and RH up till 6.5 sec (additional 0.5 sec)										
17	230351606	1647	29.01	-65.52	991	200/55	10		MP SE	18
Comments: no manual qc										
18	232010046	1703	29.91	-66.19	970	285/08	10		center	19
Comments: no manual qc; last drop but did not mark in ASPEN. (<QK-N43-FD> copy 8i can do a recco. no need to correct)										
19		1714								
Comments: bad										
20										
Comments:										

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