

Dropwindsonde Scientist Log

Storm:	ERNESTO	Flight ID:	2024081511	Mission ID:	WB05A	Takeoff:	1400	Landing:	HHMMZ
Dropsonde Scientist(s):	Sellwood				AVAPS Operator:		Keller		

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	232320058	1612	26.05	-70.52	1002	010/38	10		IP NW	1
Comments: no manual QC										
2	2334640200	1623	25.73	-69.83	995	015/50	10		MP NW	n/a
Comments: bad RH backup released / processed but not transmitted										
3	230930976	1625	25.69	-69.71	992	010/46	10		MP NW	2
Comments: backup for drop 2 no manual QC sat dropouts near top of sounding										
4	202050270	1633	25.43	-69.23	976	095/18	10		CENTER	3
Comments: combo with AXBT and Blackswift SO										
5	232050975	1640	25.20	-68.83	984	165/46	10		RMW SE	4
Comments: no manual QC WL150 = 56kt (maxwindbnd)										
6	232240173	1648	24.95	-68.35	996	170/53	10		MP SE	5
Comments: removed first 11s T and RH minor wind ramp up at surface artifact of ASPEN filtering										
7	233340980	1657	24.76	-67.76	1003	185/48	10		EP SE	6
Comments: set end 2 frames up										
8	232020809	1717	26.28	-67.91	1003	125.49	10		IP NE	7

Comments: removed first 9s T and RH										
9	233531098	1728	25.91	-68.59	991	120/64	10		MP NE	8
Comments: no manual QC										
10	233050183	1731	25.80	-68.80	987	115/51	10		RMW NE	9
Comments: no manual QC (maxwindbnd)										

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11	233350147	1738	25.41	-69.12	976	035/08	14		CENTER	10
Comments: set end 2 frames up (no difference in surface obs)										
12	232050799	1740	25.30	-69.23	976	295/50	10		RMW SW	11
Comments: no manual QC										
13	233150224	1749	24.89	-69.68	993	285/53	10		MP SW	12
Comments: no manual QC										
14	233541318	1804	24.28	-70.48	1004	280/40	10		EP SW	14
Comments: no manual QC										

15	233640797	1821	23.88	-69.38	1005	225/36	10		IP S	15
Comments: combo with blackswift and AXBT no manual QC										
16	232050804	1841	25.02	-69.18	989	255/60	10		MP S	16
Comments: sat dropout near surface came back for last few obs ASPEN wrongly flagged as post-splash										
17	233710392	1848	25.42	-69.22	982	280/33	10		RMW S	17
Comments: removed first 13s of T RH forgot to label as maxwindbnd but given low wind speed should be okay										
18	233560365	1855	25.70	-68.83	972	170/06	10		CENTER	18
Comments: removed first 10s of T RH										
19	232050801	1858	25.92	-68.84	979	075/42	10		RMW N	19
Comments: removed first 7s T and RH marked as maxwindbnd										
20	232320066	1906	26.50	-68.84	994	085/61	23		MP N	20
Comments: data dropouts / bad data near surface possible interference with the SUAS										

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21	232020808	1914	27.11	-68.88	1002	090/32	10		EP N	21

Comments: no manual QC										
22	232030720	1924	26.54	-68.87	994	075/44	10		RMW N	22
Comments: removed first 10s of T and RH last report										
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