

Dropwindsonde Scientist Log

Storm:	ERNESTO	Flight ID:	20240814I1	Mission ID:	1005A	Takeoff:	0804	Landing:	HHMMZ
---------------	---------	-------------------	------------	--------------------	-------	-----------------	------	-----------------	-------

Dropsonde Scientist(s):	Sellwood	AVAPS Operator:	Paul
--------------------------------	----------	------------------------	------

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	231741335	0937	19.75	-64.47	1011	155/27	10		IP E	1
Comments: no manual QC										
2	232320079	1003	19.72	-65.65	1007	155/49	10		MID E	2
Comments: moved midpoint to target saildrone set end time 1 frame up										
3	232320051	1023	19.61	-67.06	992	185/17	10		CENTER	3
Comments: removed an extra 4 seconds (10 total) of T and RH at top for slow equilibration										
4	230931825	1035	19.61	-67.98	1003	355/31	10		MID W	4
Comments: set end 1 frame up removed up to 10s T and RH dry air at 750mb										
5	232051002	1046	19.60	-68.78	1006	015/16	10		EP W	5
Comments: no manual QC										
6	232030153	1109	18.27	-68.18	1007	265/17	10		IP SW	7
Comments: removed first 10s T and RH set end 1 frame up										
7	233640779	1122	19.05	-67.74	1003	285/19	10		MID SW	8
Comments:										
8	240621546	1135	19.87	-67.28	994	015/39	10		CENTER	9

Comments: set end 1 frame up starting to look like an eye strong subsidence/warming CPA to avoid high reflectivity deep cloud tops (eyewall forming?)										
9	233640798	1154	21.08	-66.87	1007	095/40	10		MID NE	10
Comments: set end 2 frames up low-level dry air entrainment										
10	233560361	1201	21.55	-66.69	1010	110/35	10		EP NE	11
Comments: no manual QC very dry throughout sounding										

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	230351608	1226	21.63	-68.45	1010	075/24	10		IP NW	12
Comments: no manual QC very dry throughout sounding										
12	235124008	1241	20.85	-67.96	1003	N/A	N/A		MID NW	13
Comments: fast fall removed all winds thermo looked good enough to transmit										
13	234150035	1256	20.04	-67.36	993	230/17	10		CENTER	14
Comments: no manual QC										
14	233640819	1315	19.16	-66.48	1007	195/41	10		MID SE	15
Comments: no manual QC interesting wind shift at 875mb										

15	240454202	1324	18.78	-66.08	1010	170/29	10		EP SE	16
Comments: set end 2 frames up similar 10deg eastward wind shift near surface as previous drop										
16	232050894	1344	19.14	-65.76	1010	160/40	10		spiral	17
Comments: Last drop sent by FD set end 487.75 removed first 10s of T and RH										
Comments:										
Comments:										
Comments:										
Comments:										

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 #

Comments:										
Comments:										
Comments:										
Comments:										
Comments:										
Comments:										

Comments:										
Comments:										

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 #
Comments:										
Comments:										
Comments:										
Comments:										
Comments:										

Comments:										
Comments:										
Comments:										
Comments:										
Comments:										