

Dropwindsonde Scientist Log

Storm:	AL97/ITOFS-E #1	Flight ID:	20220809N1	Mission ID:	WAWXA	Takeoff:	1353Z	Landing:	1827Z
---------------	-----------------	-------------------	------------	--------------------	-------	-----------------	-------	-----------------	-------

Dropsonde Scientist(s):	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.

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	212810211	141606	16.50	25.50	1012.9	080/13	10			1
Comments: drop numbering: drop # (planned drop #1), drop just W of Ribeira Grande (northernmost CV island), set end as 862.00s, 48 kt E jet at ~650 mb										
2		1433								N/A
Comments: no TH - backed up, TH did come back at ~20kft										
3 (2)	212350591	143416	16.50	27.78	1011.3	070/11	10			2
Comments: classic SAL sounding w/ 43kt E jet; "()" indicates drop # along track										
4 (3)	212250297	144943	16.50	29.76	1012.8	050/11	10			3
Comments: set end at 901.50s, 39 kt E jet at 600 mb										
5 (4)	210550971	150640	16.50	31.89	1013.2	055/20	10			4
Comments: 32 E jet at 600 mb										
6(5)	210550279	152324	16.47	34.00	1013.2	050/14	10			5
Comments: 25-27 kt E jet at ~600 mb, nice trend of the AEJ steadily weakening from E-W along this E-W leg										
7 (5i)	212250300	153026	15.87	34.64	1013.0	NA	NA			6
Comments: set end as 894.25s;										
8 (6)	2128102222	153729	15.25	35.25	1012.9	060/18	10			7
Comments:										
9 (6i)	212250309	154440	14.62	35.89	1011.6	065/13	10			8
Comments:										
10 (7)	212810212	155148	13.98	36.48	1012.3	045/07	10			9
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 #
11 (8)	211831349	160221	12.75	36.50	1012.4	005/05	10			10
Comments:										
12 (9)	2126640785	161216	11.65	36.39	1011.6	280/12	10			11
Comments:										
13 (9i1)	210710342	162602	12.23	34.93	1010.9	020/05	10			12
Comments: issues with Dakar ATC >> cutting lawn mower pattern, remaining WPS: 9-21-22-28 (with 4 intermediates WP9-WP21)										
14 (9i2)	212710422	163808	12.82	33.63	1010.6	030/05	10			13
Comments:										
15 (9i3)	212340139	165018	13.41	32.33	1011.8	055/18	10			14
Comments: set end at 948.0s										
16 (9i4)	212710441	170241	14.00	31.00	1011.7	060/13	10			15
Comments: set end at 936.50s										
17 (21)	212710421	172104	14.99	29.00	1012.4	070/10	10			16
Comments: set end at 954.50s										
18 (22)	212250500	173726	14.99	26.99	1012.3	080/10	10			17
Comments: set end at 946.25s										
19 (28)	210620029	175557	14.12	25.0157	1012.1	090/10	10			18
Comments: set end at 959.75s										
Comments:										