

## Dropwindsonde Scientist Log

<b>Storm:</b>	AL06 / EARL	<b>Flight ID:</b>	20220908I1	<b>Mission ID:</b>	2206A	<b>Takeoff:</b>	1954Z	<b>Landing:</b>	0524Z
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<b>Dropsonde Scientist(s):</b>	Aberson	<b>AVAPS Operator:</b>	Wernecke
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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.

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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	211930148	220547	29.3664	-63.7506	990.5	20559	14	X		1
Comments: released well after IP, late launch detect (removed first 1039.25 s of data), ASPEN erroneously found post-splash data removed										
2	212011214	221408	29.8613	-64.0651	974.5	21073	10		Eyewall SE	2
Comments:										
3	212011212	221424	29.8782	-64.0762	974.5	21567	10		Eyewall SE	3
Comments:										
4	204330655	221522	29.9362	-64.1134	970.6	21573	10		Eyewall SE	4
Comments:										
5	204840563	222232	30.3798	-64.3831	962.1	22008	10	28.00	Center	5
Comments:										
6	204330608	222956	30.8595	-64.6064	973.4	03053	10		Eyewall NW	6
Comments: 4-m/s downdraft										
7	204350384	223132	30.9511	-64.6945	978.2	02556	12		Eyewall NW	8
Comments: 4-m/s downdraft										
8	210550952	224437	31.6527	-65.3685	994.4	28040	10			9
Comments:										
9	204241129	230240	30.6537	-65.8359	993.3	34545	10			10
Comments:										
10	204241130	231150	30.6454	-65.0966	981.6	34062	10		Eyewall W	11
Comments: 4-m/s downdraft										

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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	211821400	231216	30.6358	-65.0618	979.9	35557	10		Eyewall W	12
Comments: 4-m/s downdraft										
12	214141501	232138	30.6310	-64.3319	963.9	06002	10		Center	13
Comments:										
13	204310002	232924	30.5458	-63.7685	986.2	13560	10		Eyewall E	14
Comments: downdraft down low, but not mixing high wind speeds down										
14	204330661	233012	30.5457	-63.7041	970.7	14578	10		Eyewall E	15
Comments: broad downdraft, but not mixing high wind speeds down										
15	204260856	233114	30.5461	-63.6198	972.2	14566	10		Eyewall E	16
Comments: downdraft down low, but not mixing high wind speeds down										
16	204241111	234305	30.5434	-62.6749	991.8	15551	10			18
Comments:										
17	204330656	235958	31.6140	-63.5107	991.4	09055	12	28.38		19
Comments:										
18	204820130	001134	30.9897	-63.9614	968.9	10545	10		Eyewall NE	20
Comments:										
19	204241106	001648	30.7093	-64.2098	963.9	15012	10		center	21
Comments: post-splash data removed										
20	214110801	002405	30/2775	-64.4909	973.4	26060	10		Eyewall SW	22
Comments:										

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[illegible]