Dropwindsonde Scientist Log

Storm:	AL06 / EARL	**Flight ID:**	20220905H1	**Mission ID:**	0906A	**Takeoff:**	0855Z	**Landing:**	1412Z

Dropsonde Scientist(s):	J. Zhang, Englert	**AVAPS Operator:**	Dykeman

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	221250042	093403	19.61 N	64.37 W	1008.6	21030	10			01
Comments: IP ED-SE										
2	211230775	094745	20.17 N	65.15 W	1008.2	25519	10			02
Comments: MD-SE										
3	221250043	101229	21.58 N	65.16 W	1002.0	02030	10			03
Comments: 1st Center, 7-m/s downdraft, 13-m/s updraft										
4	211330014	101551	21.77 N	65.26 W	1005.6	04539	10			05
Comments: Drop #1 of NW rapid-fire RMW										
5	221220215	101633	21.82 N	65.27 W	1006.1	06040	10			06
Comments: Drop #1 of NW rapid-fire RMW										
6	221240280	101704	21.85 N	65.28 W	1006.1	05041	10			07
Comments: Drop #1 of NW rapid-fire RMW										
7	221220225	102636	22.49 N	65.47 W	1010.0	07536	10	28.9		09
Comments: EP-NW late launch detected										
8	221220391	104238	21.69 N	66.07 W	1008.7	02525	10			10
Comments: EP-W (was mid-P W) 2 sondes dropped here, 104422 is a bad sonde with no data, we entered the info for 104238 only										
9	211230711	105139	21.57 N	65.43 W	1003.8	03057	10			11
Comments: #1 of rapid fire W RMW										
10	221250033	105215	21.55 N	65.39 W	1002.8	02042	10			12
Comments: #2 of rapid fire W RMW										

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	drop failed						10			X
Comments: #3 of rapid fire W RMW (no sonde ID or data)										
12	221250039	105224	21.56 N	65.23 W	1003.2	10024	10	31.95		13
Comments: 2nd center combo										
13	221210178	110836	21.55 N	64.17 W	1008.2	13538	10			14
Comments: MP-E										
14	221220358	111427	21.70 N	63.74 W			10			X
Comments: RMW-E This is a bad sonde - no temp or RH, not sent										
15	221250022	112020	21.82 N	63.32 W	1012.4	11026	10			15
Comments: EP-E										
16	221220228	120600	21.76 N	65.25 W	1006.3	03555	10			16
Comments: surface RMW drop on FLAIMS leg 1										
17	221240282	122110	22.39 N	64.59 W	1011.0	06039	10			17
Comments: FL RMW for FLAIMS										
18	221250046	122150	22.42 N	64.55 W	1011.4	06043	10			18
Comments: back up for FL RMW Drop										
19	220840714	123658	23.02 N	63.88 W	1014.5	10027	10			19
Comments: NP-NE start 3rd leg of FLAIMS										
20	221250021	124954	22.37 N	64.58 W	1010.8	05536	10			20
Comments: MP-NE										

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21	221030008	125405	22.16 N	64.80 W	1009.4	06040	10			21
Comments: #1 of NE surface RMW rapid-fire										
22	221240273	125441	22.13 N	64.83 W	1007.9	05532	10			23
Comments: #2 of NE surface RMW rapid-fire										
23	211321216	125510	22.10 N	64.85 W	1009.0	05531	10			24
Comments: #3 of NE surface RMW rapid-fire										
24	221250017	130540	21.53 N	65.30 W	1004.8	01511	10			25
Comments: 3RD CENTER										
25	221220370	131221	21.20 N	65.66 W	1005.9	00528	10			26
Comments: RMW-SW										
26	221250023	131657	20.98 N	65.90 W	1010.1	33027	10			27
Comments: MP-SW										
27	221220212	132922	20.36 N	66.56 W	1012.4	35010	10			28
Comments: EP-SW last drop										
Comments:										
Comments:										
Comments:										