

Dropwindsonde Scientist Log

Storm:	AL06 / EARL	Flight ID:	2022090511	Mission ID:	1106A	Takeoff:	1905Z	Landing:	0326Z
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Dropsonde Scientist(s):	Aberson	AVAPS Operator:	Warnecke
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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.

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	211240156	215544	23.6134	-66.5106	1011.0	05027	10	28.72		1
Comments: 70-90% RH most of way down, a little dry still. Early launch detect - removed first 1256 s of data manually										
2	213830564	220812	22.9623	-65.9116	1009.1	04033	10			2
Comments:										
3	204840410	222604	22.2665	-64.9566	998.1	14523	10	28.69		3
Comments: center (but not marked in TEMP DROP), post-splash data removed, bt a few minutes after sonde										
4	204840663	224044	21.5120	-64.2768	1005.8	19533	10			4
Comments: ASPEN removed lowest 7 pressures due to outlier check. They appeared good so were kept.										
5	204840569	224846	21.2089	-63.8591	1008.5	19023	10			6
Comments: post-splash data										
6	204950420	231109	22.2779	-63.1779	1011.0	13532	10			7
Comments:										
7	211111688	232413	22.5827	-64.0629	1007.0	12037	10			8
Comments:										
8	204940489	235310	22.4644	-66.0382	1008.1	01043	10			9
Comments: post-splash data removed										
9	204820088	000436	22.5486	-66.8633	1010.4	00092	10			10
Comments: late launch detect, removed first 10.75 s of data, corrected launch lat/lon										
10	213830592	001932	21.8086	-66.4337	1011.1	34521	10			11
Comments:										

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11	211930149	002932	22.1527	-65.8827	1008.8	35031	10			12
Comments: late launch detect, removed data before 9 s										
12	204820112	004416	22.6739	-65.1801	992.8	11520	10			
Comments: center, post-splash data removed										
13	211930790	005743	23.1915	-64.4258	1009.0	07550	10			14
Comments:										
14	204820117	011302	23.6722	-63.6834	1013.3	08536	10			15
Comments: some missing data at top										
15	212011211	011356	23.6637	-63.6298	1013.1	08528	10			16
Comments: replacement for previous sonde, premature as data came back quickly. Big gap in winds in middle of profile										
16	204850204	014610	24.4405	-65.0499	1013.2	08027	10			18
Comments:										
17	213830505	015756	23.6608	-65.0230	1010.2	07037	10			19
Comments: post-splash data removed, launch lat/lon corrected										
18	211111698	021059	22.8230	-65.1587	1003.7	08029	10			21
Comments: ASPEN incorrectly flagged sonde as having post-splash data										
19	204840559	021136	22.7839	-65.1660	1002.5	08023	10			22
Comments: post-splash data removed										
20	211921027	021202	22.7559	-65.1714	1002.5	10040	10			23
Comments: post-splash data removed										

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21	204770431	021408	22.6354	-65.2399	998.0	08519	14			24
Comments: center, post-splash data removed										
22	204820158	021531	22.5620	-65.2962	999.6	25005	10			25
Comments: note lower surface wind speed than center drop										
23	211910391	021605	22.5369	-65.3237	999.1	25015	10			26
Comments: 6 m/s updraft near flight level										
24	213820075	021630	22.5181	-65.3445	999.7	24515	10			27
Comments: 8 m/s downdraft										
25	213830052	022640	21.8130	-65.4051	1006.9	27528	10			28
Comments: lots of missing data at the top										
26	211850534	024010	20.8597	-65.3982						
Comments: post-splash data removed, no wind, not sent										
27	213830053	024117	20.7806	-65.3965	1012.0	27013	10			29
Comments: last report										
Comments:										
Comments:										
Comments:										