

Dropwindsonde Scientist Log

Storm:	AL07 / FIONA	Flight ID:	20220919I1	Mission ID:	1607A	Takeoff:	2004Z	Landing:	0356Z
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Dropsonde Scientist(s):	Murillo	AVAPS Operator:	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.

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	211111691	222600	20.3420	-71.8316	1008	311/6	12			3
Comments: At the IP										
2	214110652	2240	20.337	-70.86	1000	12/20	22			4
Comments: midpoint inbound leg										
3	21414181	225052	20.205	-70.21	980	359/37	16			5
Comments:										
4	211130352	2251	20.20	-70.18	977	247	10		EYEWALL	8
Comments:										
5	213620522	225132	20.1959	-70.1710	971	344/14	10		EYEWALL	9
Comments:										
6		2253								
Comments:										
7	2213550859	225825	20.1618	-69.8384	982	120/75	12		EYEWALL E	22
Comments:										
8										
Comments:										
9										
Comments:										
10	213430249	230931	20.1576	-69.0807	1004	135/55	10		midpoint	16
Comments: GPS dropouts in the middle										

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										
Comments:										
12	213430247	232426	20.0979	-68.0998	1008	141/39	10			10
Comments:										
13	211111692	000013	20.9498	-69.7418	1002	095/51	10		midpoint	17
Comments:										
14*	211130353	235306	21.3719	-69.4820	1007	70/42	10		endpoint	11
Comments:										
15										
Comments:										
16										
Comments:										
17										
Comments:										
18	211111695	000904	20.4478	-70.0546	982	070/86	10		EYEWALL NE	23
Comments:										
19										
Comments:										
20	211111693	002346	20.29	70.21	970	45/17	28		EYE	6
Comments:										

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21	213550862	002948	19.9885	70.4926	995	288/42	12			12
Comments:										
22	211111687	010537	19.6287	69.4284	1003	149/39	10			13
Comments:										
23	213430254	011922	20.1450	-70.1158	992	175/60	10		MIDPOINT	18
Comments:										
24										
Comments:										
25	21130258	012138	20.2649	-70.2222	977	155/99	10		RNW SE	24
Comments:										
26										
Comments:										
27	213550864	012540	20.5081	-70.3936	978	025/81	12		RMW NW	25
Comments: RH dropouts supersaturated? Last report										
28										
Comments:										
29										
Comments:										
30	2111690	013705	21.2127	-70.8238	1005	045/44	12		midpoint	15
Comments: set end of drop time to 229.25 seconds										

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 #
31	211111689	015031	22.0093	-71.3157	1009	070/40	12		end point leg 3	14
Comments:										
32	211030689	020926	22.9077	-72.6655	1010	-	-		ferry outbound #1	21
Comments: post-splash, fast fall										
33										
Comments:										
34	2213810379	023504	24.2449	-74.9535	1012	080/17	10		ferry outbound #2	19
Comments:										
35	213570213	030044	25.5355	-77.2681	1014	090/11	12		ferry outbound #3	20
Comments:										
Comments:										
Comments:										
Comments:										
Comments:										