Dropwindsonde Scientist Log

Storm:	AL07 / FIONA	**Flight ID:**	20220920I1	**Mission ID:**	2107A	**Takeoff:**	2003Z	**Landing:**	0503Z

Dropsonde Scientist(s):	Murillo	**AVAPS Operator:**	Wereneke

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	213830567	215552	22.7805	-73.5092	1003	360/28	10		IP	4
Comments: At IP, late launch detect LAU 215552, diagnosed 215204										
2	212410899	220706	22.8376	-72.6813	999	360/34	12		midpoint	1
Comments: midpoint sonde inbound from the west										
3	212710095	221546	22.7911	-72.0517	982	335/69	12		RMW W	5
Comments:										
4		221711	22.7828	-71.9499					RMW W	
Comments: no GPS, bad sonde :(										
5	212710555	221810	22.7768	-71.8756	969	-	-		RMW W	18
Comments: no winds at the sfc										
6	212750189	222130	22.7624	-71.6257	953	105/03	10		EYE	2
Comments: Center sonde, late launch detect. LAU 222129.75, diagnosed 200516.25										
7	212710114	223020	22.7587	-71.3617	961	131/101	10		RMW E	6
Comments: late launch detect used the p file										
8	211111734	223034	22.7586	-71.3448					RMW E	
Comments: contains post splash data and late launch detect										
9	2313830589	223052	22.7585	-71.3237	964	136/106	10		RMW E	9
Comments:										
10	213850770	223706	22.7417	-70.8960	992	140/53	10		midpoint	14
Comments:										

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11	212340265	224240	22.7084	-70.5055	999	160/44	12		end point	10
Comments:										
12	213910069	230132	23.7019	-71.1482	998	100/55	10		endpoint	13
Comments: combo drop with BT										
13	212430886	231552	22.8524	-71.6311	952	160/10	10		eye	7
Comments: combo drop with BT										
14	212410898	234236	23.2031	-71.3819	979	-	-		eyewal NE	12
Comments:										
15	212710096	234353	23.1434	-71.4362	971	085/82	10		eyewall NE	24
Comments:										
16	213910094	234451	23.0988	-71.4770	963	081/104	10		eyewall NE	25
Comments:										
17	213830590	234512	23.0831	-71.4918	962	075/97	10		eyewall NE	35
Comments:										
18	213830570	234544	23.0568	-71.5153	957	100/86	10		eyewall NE	34*
Comments: ***CCA**										
19	213830594	234920	22.8900	-71.7063	951	245/4	10		eye	?
Comments:										
20	213850829	000202	22.6701	-71.8556					eyewall SW	
Comments: unable to dynamically adjust temperature										

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21	212410896	000224	22.6515	-71.8726	971	25583	10		eyewall SW	15
Comments:										
22										
Comments:										
23	213850825	000806	22.3689	-72.1295	993	300/50	12		midpoint	16
Comments:										
24	213620515	002110	21.7611	-72.7868	1002	310/42	10		end point	17
Comments:										
25	212710111	005338	21.6663	-71.0603	1003	215/41	10		endpoint BT combo	20
Comments:										
26	213430240	010632	22.3937	-71.4351	992	-	-		~~eyewall SE~~ midpoint	22
Comments:										
27	212730523	0110226	22.6150	-71.5734	979	195/75	12		eyewall SE	23
Comments:										
28										
Comments:										
29	213620531	011322	22.7811	-71.6749	956	195/76	10		eyewall SE	29
Comments:										
30	213830574	011703	22.9946	-71.8044	948	95/08	10		eye	?
Comments: Has post-splash data										

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31	203830019	012626	23.2456	-71.5885					eyewall NE	
Comments:										
32	213430264	013602	23.1791	-71.6798	957	70/88	10		eyewall NE	26
Comments:										
33	213430273	013623	23.1585	-71.6928	955	-	-		eyewall NE	27
Comments: Contains post-splash data, end time set at 222.0 secs										
34	213570209	022428	23.2471	-71.5928	965	81/114	10		eyewall NE	28
Comments:										
35	213570240	022456	23.2238	-71.6105	964	80/88	10		eyewall NE	36
Comments:										
36	213850823	022540	23.1854	-71.6397	956	81/121	10		eyewall NE	37
Comments:										
37	213620466	02560	23.2998	-71.8314	960				eyewall NW	
Comments:										
38	213830591	025632	23.3327	-71.8519	965	15/83	10		eyewall NW	33
Comments:										
39	213550853	025654	23.3535	-71.8653	969	25/76	10		eyewall NW	32
Comments:										
40	213830488	030818	24.0596	-72.2136	997	40/44	10		midpoint	30
Comments:										

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41	213910071	032333	24.8365	-72.8779	1006	55/35	10		endpoint	31
Comments:										
Comments:										
Comments:										
Comments:										
Comments:										
Comments:										
Comments:										
Comments:										
Comments:										
Comments:										