

Dropwindsonde Scientist Log

Storm:	AL13 / JULIA	Flight ID:	20221008H1	Mission ID:	0913A	Takeoff:	1953Z	Landing:	0348Z
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Dropsonde Scientist(s):	Sellwood	AVAPS Operator:	Dykeman
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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	210650377	215254	12.61	-79.97	1003	130/41	10		IP E	1
Comments: no manual qc										
2	213741153	220309	12.76	-80.77	999	140/35	10		MID E	2
Comments: set end 1 frame up										
3	213740738	220836	12.84	-81.19	995	115/37	10		QP E	3
Comments: no manual qc										
4	210240921	221432	12.95	-81.67	995	066/63	12		CPA CENTER	4
Comments: north of center (center over San Andes Island) set end 1 frame up										
5	213741154	222025	12.96	-82.17	998	035/44	10		QP W	5
Comments: no manual qc										
6	2106500484	222648	12.83	-82.68	1001	020/31	10		MID W	6
Comments: no manual qc										
7	219240292	223436	12.68	-83.29	1003	010/21	10		EP W	7
Comments: Post splash data end 287.25										
8	210810045	225342	11.53	-82.72	1002	N/A	18		IP SW	8
Comments: Truncated leg due to land, Post splash data flag (questionable) set end at 1001.4mb wind dropped out at 100m										
9	210240306	230259	12.06	-82.47	998	300/24	10		MID SW	9
Comments: Post splash data set end to 281.75										
10	21344f0659	230835	12.35	-82.25	995	360/48	10		QP SW	10
Comments: Interesting sonde motion at 850mb										

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11	213830575	231458	12.67	-82.01	992	040/35	10		CENTER	11
Comments: Center based on swirl in MMR imagery no manual qc										
12	213749470	231746	12.83	-81.93	994	050/35	12		RMW1 NE	X
Comments: Set end 1 frame up										
13	213741180	232154	13.07	-81.81	997	070/55	12		RMW2 NE	X
Comments: Set end 2 frames up										
14	210430443	232224	13.19	-81.80	996	075/62	10		RMW3 NE	12
Comments: Winds still increasing										
15	213430271	232947	13.52	-81.59	1002	075/42	10		MID NE	13
Comments: no manual qc										
16	210420677	233818	14.02	-81.36	1003	085/43	10		EP NE	14
Comments: Looks a bit dry throughout										
17	210240293	235819	14.16	-83.00	1005	030/20	10		IP NW	15
Comments: Late winds										
18	213430293	000952	13.44	-82.66	1001	050/43	10		MID NW	16
Comments: Post splash data end at 288.25										
19	210731095	001436	13.10	-82.46	998	030/49	12		QP/RMW NW	17
Comments: set end 2 frames up										
20	210650462	002441	12.74	-82.19	992	055/33	12		CENTER	18
Comments: Near center drop before outbound turn to start FLAIMS module set end to 260.75										

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 #
21	210750193	002949	13.06	-82.38	996	045.52	10		QP/RMW	19
Comments: Same location as inbound QP/RMW for FLAIMS no manual qc										
22	213430286	003630	13.43	-82.70	1001	045/38	10		MID NW	20
Comments: End of outbound leg for FLAIMS no manual qc										
23	210710262	004745	13.01	-82.40	996	060/41	10		QP/RMW	21
Comments: Same location (3rd pass) for FLAIMS no manual qc										
24	213430272	005356	12.65	-82.19	988	959.13	12		CENTER	22
Comments: Same location as first center for FLAIMS - end of module no manual qc										
25	210820290	005650	12.47	-82.23	990	025/13	10		CENTER	23
Comments: Center fix no manual qc										
26	213740671	010848	11.70	-81.91	1001	225/29	12		MID SE	24
Comments: no manual qc										
27	213740799	012303	10.85	-81.51	1005	215/24	10		EP SE	25
Comments:no manual qc LAST REPORT										
Comments:										
Comments:										
Comments:										