

Dropwindsonde Scientist Log

Storm:	AEW1	Flight ID:	2024071511	Mission ID:	WXWXA	Takeoff:	1505 Barbados	Landing:	2219 Barbados
--------	------	------------	------------	-------------	-------	----------	------------------	----------	------------------

Dropsonde Scientist(s):	Sellwood/Ko	AVAPS Operator:	Santoni
-------------------------	-------------	--------------------	---------

Pre-flight

- 6 Discuss the pattern with the Lead Project Scientist (LPS) and ensure that enough dropsondes are onboard.
- 6 Complete the appropriate pre-flight set-up of your workstation and ASPEN (see [Dropsonde Processing](#))Guide

In-flight

- 6 Ensure the Flight Director is aware of upcoming drops and whether a backup is requested in case of failure.
- 6 Ensure the AVAPS operator has determined that the dropsonde is (or is not) transmitting a good signal.
- 6 Prioritize processing of center drops and report MSLP and surface wind speed and direction to the Flight Director.
- 6 Fill in the Dropwindsonde Scientist log as drops are released and processed.
- 6 Copy completed ASPEN files (e.g., FRD, netCDF, SkewWMO txt, BUFR) into the “FRD” folder on the workstation desktop for automated transmission to the ground for archival.

Once “science is complete”...

- 6 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.
- 6 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.
- 6 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.
- 6 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.

Storm: <<STORM NAME>>

Flight ID: <<YYYYMMDDA#>>

Mission ID: <<WXWXA>>

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	233221000	1544	13,23	-59.17	1015	105/13	10		IP	1
Comments: Microphysics spiral drops waypoint 229										
2	233630612	1554	12.63	-58.61	1014	105/11	10		WP 2	2
Comments:										
3	233824626	1620	10.95	-59.15	1015	160/07	10	29.4	WP 3	3
Comments:										
4	233220211	1643	9.84	-58.01	1014	350/07	10	29.3		4
Comments:										
5	233641222	1709	8.51	-56.73	1015	185/11	10	29.3		5
Comments:										
6	233350168	1724	8.65	-55.59	1015	160/08	10			6
Comments:										
7	233220200	1739	8.79	-54.46	1014	240/13	10	29.09?		7
Comments: in racetrack pattern SW to NE										

Storm: <<STORM NAME>>

Flight ID: <<YYYYMMDDA#>>

Mission ID: <<WXWXA>>

8	233640203	1744	9.15	-54.40	1013	230/20	10			8
Comments: racetrack midpoint 1										
9	233220910	1801	10.29	-53.93	1013	170/24	10			9
Comments: racetrack midpoint 2										
10	233641248	1810	10.85	-53.71	1014	145/18	10			10
Comments: racetrack endpoint NW										

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	233541310	1827	10.79	-53.21	1014	170/11	10			11
Comments: racetrack endpoint NE										
12	233824632	1833	10.36	-53.31	1013	210/16	10			12
Comments: racetrack midpoint 1 NE-SW leg										
13	233220964	1840	9.95	-53.46	1013	220/15	10			13
Comments: racetrack midpoint 2 NE-SW leg										

Storm: <<STORM NAME>>

Flight ID: <<YYYYMMDDA#>>

Mission ID: <<WXWXA>>

14	233350150	1846	9.57	-53.60	1014	230/17	12			14
Comments: racetrack SE endpoint (corner)										
15	233460694	1900	9.78	-54.45	1013	220/18	10			15
Comments: racetrack SW endpoint (corner)										
16	233350131	1907	10.18	-54.24	1014	200/19	10			16
Comments: racetrack SW-NE midpoint 1										
17	233460212	1914	10.64	-53.98	1014	200/28	12			17
Comments: racetrack SW-NE midpoint 2										
18	233350119	1922	11.21	-53.82	1014	195/10	10			18
Comments: racetrack original endpoint leg extended to get arc cloud										
19	233631987	1936	12.11	-53.49	1014	155/08	10			19
Comments: racetrack end to intercept original point #18										
20	233350148	1942	12.20	-53.82	1013	150/11	10			20
Comments:										

Storm: <<STORM NAME>>

Flight ID: <<YYYYMMDDA#>>

Mission ID: <<WXWXA>>

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	233460165	1947	11.82	-53.97	1014	130/13	10			21
Comments: racetrack ip inbound from NE to SW										
22	233340917	1954	11.37	-54.15	1014	185/12	10			22
Comments: racetrack midpoint 1										
23	233541311	2009	10.48	-54.71	1014	205/15	10			23
Comments: racetrack midpoint 2										
24	233350164	2015	10.35	-54.45	1014	210/09	10			24
Comments: racetrack endpoint SW										
25	233220999	2025	10.83	-53.89	1015	210/19	10			25
Comments: racetrack midpoint 1 SW - NE										
26	233350149	2032	11.25	-53.65	1013	185/17	10			26
Comments: racetrack midpoint 2 SW - NE										
27	233460166	2040	11.72	-53.33	1014	200/14	10			27
Comments: end of racetrack near original pont 17										

Storm: <<STORM NAME>>

Flight ID: <<YYYYMMDDA#>>

Mission ID: <<WXWXA>>

28	233541322	2059	12.35	-54.51	1013	140/09	10		WP18	28
Comments: point 18 (last sonde at 10k ft)										
29	233350120	2132	12.57	-56.00	1014	110/12	10		WP19	29
Comments: point 19 @ 21k ft										
30	233350177	2143	12.70	-57.02	1014	080/14	10		WP20	30
Comments:										

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	233410947	2157	12.88	-58.26	1013	095/15	10		WP21	31
Comments: final drop										
Comments:										
Comments:										

Storm: <<STORM NAME>>

Flight ID: <<YYYYMMDDA#>>

Mission ID: <<WXWXA>>

Comments:										
Comments:										
Comments:										
Comments:										
Comments:										
Comments:										