

Dropwindsonde Scientist Log

Storm:	RAFAEL	Flight ID:	20241106H1	Mission ID:	1218A	Takeoff:		Landing:	
Dropsonde Scientist(s):		Kaplan			AVAPS Operator:				

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.

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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	233350178	0943	22.17	82.28	1006.4	41/17	10			1
2	233825123	0956	21.44	81.83	1001.6	51/36	10			2
3	233631989	1008	20.80	81.47	969.9	49/22kt	10			3
Was supposed to be an RMW drop but was dropped just inside the eyewall so was not sent as an RMW sonde.										
4	233640831	1009	20.72	81.41	966.9	227/19	10		Center	5
182 end of drop.										
5	233640103	1011	20.64	81.36	975	185/79	10		RMW SE	6
6	234220085	1020	20.13	81.05	1000.1	204/41	10			7
180.5 end of drop.										
7	232320184	1036	19.33	80.44	1005.7	200/24	10			8
Set end of drop at 195.75.										
8	232320197	1104	20.95	79.79	1006.5	130/36	10			9
9	233950570	1115	20.92	80.64	1002.8	138/44	10			10
10	233950660	1124	20.92	81.34	982.3	129/75kt	10		RMW East	12
11	232240087	1128	20.93	81.55	966.1	218/22	10		center	11
End of drop 222.5										

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12	233640830	1129	20.94	81.71	976	324/69	10		RMW NW	14
13	232210235	1143	20.95	82.74	1003.8	335/33	10			15
14	233460715	1152	20.95	83.36	1006.0	336/15	10			16
End of drop 253.5										
15	234220964	1221	19.51	81.86	1006.1	236/19	10			17
16	233541329	1232	20.27	81.79	1002.1	240/36	10			18
17	233630628	1242	20.99	81.72	972	196/69	10		RMW SW	20
18	233531097	1244	21.13	81.70	964.7	138/16kt	10		Center	21
19	233710342	1245	21.23	81.69	976.1	55/85kt	10		RMW NE	22
20	235144623	1254	21.90	81.63	1003.1	77/48kt	10			23
21	233814544	1316	23.46	81.39	1009.5	91/27	10		LAST REPORT	24
End of drop at 249.75										

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