## **Dropwindsonde Scientist Log**

Storm:	RAFAEL		Flight ID:	20241107H1	Mission ID:	WA18A	Takeoff:	Landing:	
Dropsond	le Scientist(s):	Kaplan	1			VAPS perator:			

## **Pre-flight**

- $\checkmark$  Discuss the pattern with the Lead Project Scientist (LPS) and ensure that enough dropsondes are onboard.
- $\checkmark$  Complete the appropriate pre-flight set-up of your workstation and ASPEN (see <u>Dropsonde Processing Guide</u>).

## In-flight

- $\checkmark$  Ensure the Flight Director is aware of upcoming drops and whether a backup is requested in case of failure.
- $\checkmark$  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.
- $\checkmark$  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"...

- $\checkmark$  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.

Storm: <<RAFAEL>>

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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	233650326	0921	25.89	85.78	1008.4	37/22	10			1		
End of dro	p at 204.75 Lots of ext	ra post splash	data removed.									
2	235144618	0928	25.48	86.03	1008.3	37/26	10			2		
	-											
3	243150062	0940	24.88	85.46	1004	30/28	10			3		
4	230351456	1009	24.3	84.91	985	349/66kt	10		RMW	4		
5	235154011	1013	24.26	84.63	970.5	149/14	10		center	5		
6	233640815	1026	23.70	84.01	1000.4	180/44	10			6		
7	234830545	1036	23.28	83.56	1003.8	151/30	10			7		
8	235154179	1108	25.60	83.50	1009.1	89/24	10			8		
9	235144632	1119	25.05	84.13	1003	88/38	10			9		
10	235154025	1134	24.34	84.82	970.5	142/17	10		center	10		
Set en	d of drop at 182.25 s											
11	235154027	1146	23.78	85.43	1001.1	310/34	10			11		
Set end of	drop at 200.5 s											

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12	232210228	1158	23.18	86.11	1005.9	325/23	3	10		12
Data g	ap 202.75 to 204.25. Set e	nd time @204	.5. Aspen would	not compute heig	hts at first. Post-spl	ash data.				
13	232320194	1215	22.76	84.99	1005.5	243/18	В	10		13
14	235154102	1227	23.6	84.98	999.6	251/41	1	10		15
	drop at 198.75 lots of pos Ited heights. This happene								earlier end time ASPEN then	
15	235144631		24.36 84.98	ights missing unti	971.3	209/10	10	center	16	
End of	f drop at 186.0									
16	235154183	1252	25.31 84.96		1004.1	67/47	10		17	
17	232210227	1304	26.13 84.95		1008.5	85/40	10		18	
17	202210227	1004	20.10 04.90		1000.0		10		10	
10	005154101	1017			1000 (	45/05	10		10	
18	235154101	1317	25.62 85.82		1008.6	45/35	10		19	
	235144617	1341	24.45 87.12		1007.0	16/31	10		20	
Post	splash warning, however,	heights comp	outed initially this	time. Set end time	e to 198.75 and the	n recomputed	d heigh	ts though.		
20	235144595	1355	24.45 86.16		1004.1	352/35	10		21	
	End of drop @205.25									
21	230351549	1409	24.46 85.11		971.8	139/10	10	center	22	
Set e	end of drop@ 176.75									
22	235144638	1422	24.45 84.23		1003.6	136/40	10		24	
Set e	end of drop at 199.25									

Storm:	< <rafael>&gt;</rafael>		Flight ID: <<241107H1>>			Missi	on ID: <<	< WA18A	
23	235154115	1436	24.45	83.29	1009.1	136/26kt	10	LAST REPORT	25
Set en	d of drop @216.25.								
the 23 obs m	drops that were mad	e during the flig /DMs) yet the la	ht. However, st obs numb	, 3 VDM's were per. was 25.  Ca	also sent off the aircraf	t (these also appea	r in AOC's	ges were sent off the plane website archive) so there s ded that only 22 of the 23 dr	should have been 26 total