Dropwindsonde Scientist Log

Storm:	AL97 / ITOFS	S-E #1	Flight ID:	20220811N1	Mission ID:	WCWXA	Tak	eoff:	1208Z	Landing:	1717Z
Dropsonde Scientist(s): Dunion						AVAPS Operator: Lynch					
Pre-flight											
√	Discuss the pattern with the Lead Project Scientist (LPS) and ensure that enough dropsondes are onboard.										
1	Complete the appropriate pre-flight set-up of your workstation and ASPEN (see <u>Dropsonde Processing Guide</u>).										
In-flight											
1	Ensu	Ensure the Flight Director is aware of upcoming drops and whether a backup is requested in case of failure.									
1	Ensu	Ensure the AVAPS operator has determined that the dropsonde is (or is not) transmitting a good signal.									
1	Prior	Prioritize processing of center drops and report MSLP and surface wind speed and direction to the Flight Director.									
√	Fill	Fill in the Dropwindsonde Scientist log as drops are released and processed.									
1	1.	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 "scie	ence is complete	e"									
1		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.								1	
1		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.									
1		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.									
1		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	219429803	135621	15.00	36.01	1013.6	100/09	10			1			
Comments: set end at 894.25 s; SAL: 40% RH 650 mb, 48 kt ESE jet ~600 mb, ~170NM NE of AL97													
2	210440117	140859	14.72	37.57	1012.3	090/16	10			2			
Comments: modified SAL: dry wedge ~550-800 mb, as low as 50-60% RH, 50 kt ESE jet ~600 mb, ~132 NM NNE of AL97													
3	210520229	142200	14.43	39.16	1012.4	100/14	10			3			
Comments: set end at 925.00 s; remnant wedge of dry air 600-850 mb, but only down to ~65% RH at 700 mb; SAL jet still going strong, but weaker- ESE 45kt													
4	210550291	143450	14.15	40.72	1012.0	095/14	10			4			
Comments: moist tropical + sounding													
5	210550250	144748	13.85	42.29	1010.2	115/13	10			5			
Comments: very narrow wedge of dry air ~650-800 mb (40% RH at ~750mb); interesting 24 kt jet ~825-950 mb													
6	210820534	150046	13.57	43.86	1011.6	095/16	10			6			
Comments: set end at 906.25 s; spiky mid level dry air down to ~40% RH - have seen this spikiness near SAL-convective boundaries													
7	210731076	151344	13.28	45.44	1011.3	080/17	10			7			
Comments: spiky mid level dry air													
8	210540405	152636	13.00	47.01	1011.2	055/09	10			8			
Comments: spiky mid level dry air down as low as 33% at ~700-750 mb; LAST REPORT													
Comments:													
Comments:													