### UWYO Plans for WINTRE-MIX

### January 13, 2023





## Primary goal over next 3 months is to develop summary statistics and imagery for all flights/legs/MA

- Summary statistics table (and chart for visualization) organized by flight for each leg and missed approach
- Summary imagery (plots) that include reflectivity X-sections and time traces of dynamics, thermodynamics, and microphysics observations (for all legs and msd-apprchs)
- UWYO process for a subset of OAP microphysics and detailed comparison between NRC/UWYO





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output



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Su	Ur IOP XX / Research Flight YY								
rei of	Leg (#	ave Alt (rng)	Temp (rng)	CLWC (25-75%) (max)	TCWC (25-75%) (max)	N <sub>D</sub> (25-75%) (max)	N <sub>&gt;100</sub> (25-75%) (max)		
m	( L1		-4.5 -5.3 – -6.2	0.21 0.05 – 0.34 0.55					
m	L2								
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Distance (km

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MISSED APPROACHES would utilize similar parameters (excl. w/V<sub>D</sub>), but instead of time traces would plot as profiles

<u>Parameters for</u> <u>WINTRE-MIX</u>

- NAW dBZ
- NAX dBZ
- NAW V<sub>D</sub>
- WDIR & WMag
- W, T, T<sub>D</sub>

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- CLWC & TLWC
- Cloud N<sub>D</sub> and D<sub>bar</sub>
- N<sub>>100um</sub>, N<sub>>1mm</sub>



#### NAW/NAX (NAWX) Airborne Radar Additional Processing/Corrections <u>NAX Example:</u>



#### NAW/NAX (NAWX) Airborne Radar Additional Processing/Corrections <u>NAW Example:</u>

