NC STATE UNIVERSITY ANALYTICS



Methods and Findings

We focus on winter 2020 IMPACTS data when the NASA ER-2 was well coordinated with the NASA P-3. We define these conditions as when P-3 was located within ± 3 km horizontal distance and within \pm 5 minutes of a given point on the ER-2 track.

- Within CRS echo (> -20 dBZ), around 33% of P-3 samples were subsaturated with respect to ice, and around 80% were subsaturated with respect to water.
- No obvious correlation between RH_{water} and TAMMS vertical velocity, vertical velocity variance, CRS spectrum width, reflectivity, or radial velocity was found.
- Regions of saturation with respect to water do not appear to systematically coincide with repeatable CRS-detected features.



Ambient Environments for Ice Mass Growth and

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