

### MISSION SUMMARY – CU INSTRUMENTS

Deployment (date/time):	START 20120118 2145 UTC END 20120119 0400 UTC
Author:	Evan Kalina
Instrument status:	
Disdrometer CU01	Down for repairs
Disdrometer CU02	Normal operation
MRR	Normal operation
Radiometer	Normal operation
Changes to initial deployment strategy (e.g., resolution, range):	150 m height resolution was used for the MRR because the maximum height seen by the radar was double the cloud-top height during the IOP on 20120116.
IOP type:	<input checked="" type="checkbox"/> Single UWKA flight IOP <input type="checkbox"/> Double flight IOP <input type="checkbox"/> Single-generator, single-flight IOP <input type="checkbox"/> Blowing Snow IOP <input type="checkbox"/> Surface instrument only IOP (WWMPP IOP)
Weather:	<p>Generally partly cloudy from IOP start (2145 UTC) to 0100 UTC. Very light snowfall 2145-2200 UTC during a brief overcast period. Wind direction was ~245 degrees at IOP start. Extremely windy, with a gust to 94 mph (DOW, 5 m AGL). Considerable blowing and drifting snow. No SLW and a pocket of ~50% RH at 800 m AGL seen in radiometer data (2300 UTC). 0015 UTC Dixon sounding confirmed dry air still present in the lowest 100 mb.</p> <p>Thickening mid- and high-level cloud cover began at 0115 UTC. Radiometer showed low-level RH increasing, with some cooling of the temperature above 500 m AGL. MRR began to see echoes of ~0 dBZ 250-1000 m AGL at 0145 UTC. Echoes increased to 15 dBZ by 0210 UTC, but sub-cloud sublimation</p>

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	was observed, with little to no snow at the ground. Light snow finally fell at the surface between 0245-0300 UTC, but then stopped and did not fall for the remainder of the IOP. No SLW above $\sim 0.01 \text{ g/m}^3$ ever observed by radiometer, and the column never fully saturated.
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### Default Deployment Strategy:

	Time resolution	Range resolution	Max range
CU01	10 s	N/A	N/A
CU02	10 s	N/A	N/A
MRR	1 min	200 m	
Radiometer	1 min	500 m	10 km AGL