

### MISSION SUMMARY – CU INSTRUMENTS

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| Deployment (date/time):   | START 20120120 1230 UTC<br>END 20120120 1900 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): | MRR 150 m height resolution.   |
| IOP type:   | <input checked="" type="checkbox"/> Single UWKA flight IOP<br><input type="checkbox"/> Double flight IOP<br><input type="checkbox"/> Single-generator, single-flight IOP<br><input type="checkbox"/> Blowing Snow IOP<br><input type="checkbox"/> Surface instrument only IOP (WWMPP IOP)  |
| Weather:  | <p>Moderate to heavy snow with occasional graupel/snow pellets from IOP start to 1500 UTC. Radiometer showed large amounts of SLW, occasionally greater than 0.06 g/m<sup>3</sup> below 2 km. Precipitation abruptly decreased in intensity after 1500 UTC and MRR showed weaker (&lt;15 dBZ vs. 25 dBZ), shallower (max 2.25 km vs. 3.75 km) echoes. Precipitation temporarily stopped between 16-18 UTC, and then resumed as light snow. Snow became heavier and flakes were quite large by the end of the IOP at 1900 UTC, despite rising ceilings and some breaks in the clouds. Wind speeds were much weaker than during the previous few days and averaged 270 deg at ~14 m/s (DOW, full mast extension). 700 mb temperature was steady at -5.5 degC for much of the IOP before climbing to -4 degC by the end of the IOP.</p> |

## Mission Summary – ASCII 4 January: 15 March 2012, Battle Pass Site, Wyoming

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|  | <p>NOTE: WMI forgot to turn on the seed generators at the scheduled time, so the IOP had to be extended in time and changed from a single-flight IOP to a double-flight IOP.</p> <p>NOTE2: UWKA sustained a large dent due to ice and cannot leave the hangar. The IOP is changed back to a single-flight IOP and is ended.</p> |
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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 |