Moisture perturbation @500 200 400 Pressure [hPa] 600 800 Resolution 100 m 1000 1.0 500 0.0 0.5 5 250 m Temperature RHCloud water Water vapour 500 m [K] [%] mixing ratio mixing ratio 1 km  $[10^{-3} \text{ g kg}^{-1}]$  $[10^{-3} \text{ g kg}^{-1}]$ 4 km 200 Model MONC Pressure [hPa] 400 WRF 600 800 1000 -0.20.0 \_<sub>5</sub> <u>-</u>2 -0.40 0 Ice Snow Rain Graupel mixing mixing mixing mixing ratio ratio ratio ratio  $[10^{-3} \text{ g kg}^{-1}]$  $[10^{-3} \text{ g kg}^{-1}]$  $[10^{-3} \text{ g kg}^{-1}]$  $[10^{-3} \text{ g kg}^{-1}]$