Temperature perturbation @730 200 400 Pressure [hPa] 600 800 Resolution 100 m 1000 500 -2 0.5 -5000.0 0 250 m Cloud water Temperature RHWater 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 -0.50.5 -0.20.0 **-**5 0.0 0 Ice Snow Rain Graupel mixing mixing mixing mixing ratio ratio ratio ratio

 $[10^{-3} \text{ g kg}^{-1}]$

 $[10^{-3} \text{ g kg}^{-1}]$

 $[10^{-3} \text{ g kg}^{-1}]$

 $[10^{-3} \text{ g kg}^{-1}]$