Temperature perturbation @600 200 400 Pressure [hPa] 600 800 Resolution 100 m 1000 **–**2 0.5 0.0 -250250 0 250 m Temperature Cloud water RHWater vapour 500 m [%] [K] mixing ratio mixing ratio 1 km  $[10^{-3} \, g \, kg^{-1}]$  $[10^{-3} \text{ g kg}^{-1}]$ 4 km 200 Model MONC Pressure [hPa] 400 WRF Kuang (2010) 600 800 1000 -0.2\_2 0.0 **-**2 0 -40 0 **Snow** Rain Graupel Ice mixing mixing mixing mixing ratio ratio ratio ratio  $[10^{-3} \text{ g kg}^{-1}]$  $[10^{-3} \text{ g kg}^{-1}]$  $[10^{-3} \text{ g kg}^{-1}]$  $[10^{-3} \text{ g kg}^{-1}]$