Temperature perturbation @500 200 400 Pressure [hPa] 600 800 Resolution 100 m 1000 -250**-**2 0.0 0.5 250 250 m Cloud water Temperature Water vapor RH500 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 Kuang (2010) 600 800 1000 -0.20.0 **–**5 -1 0 0 Snow Rain Graupel Ice mixing mixing mixing mixing ratio ratio ratio ratio

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

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

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

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