Moisture perturbation @412 200 400 Pressure [hPa] 600 800 Resolution 100 m 1000 1.0 500 **-**5 0.0 0.5 5 250 m Temperature Water vapour Cloud water 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 -0.5-10<u>-</u>2 0.0 0 0 **-4** 0 Graupel **Snow** Rain Ice mixing mixing mixing mixing ratio ratio ratio ratio $[10^{-3} \text{ g kg}^{-1}]$ $[10^{-3} \text{ g kg}^{-1}]$

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

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