Sensitivity of mixed-phase moderately deep convective clouds to parameterisations of ice formation - An ensemble perspective – Supplementary information

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Figure 1. Time-average profiles of 95th percentile of the in-cloud number concentrations of (a) cloud droplets, (b) rain drops, (c) ice crystals, (d) snow and (e) graupel. Data is available every 10 min. Different coloured lines show the profiles from simulations with different heterogeneous freezing parameterisations, different INP number concentrations, without a parameterisation of the Hallet-Mossop process and with warm cloud microphysics only (colours according to legend). The 0 °C level is located at about 2.6 km altitude.

Figure 2. (Precipitation rate distribution (excluding non-raining grid-points) with a focus on high precipitation rates. The left set of vertical lines shows the 95th percentile and the set of lines to the right the 99th percentile