Supporting Material: Relaxation times of Arctic mixed-phase clouds to short-term aerosol perturbations under different surface forcings

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1 Figures



Figure 1. Growth by deposition freezing rate in the a) *ocean_control* and b) *ice_control* simulations and c,d) the respective *1000CCN* simulations



Figure 2. Cloud droplet number concentration (colors) and LWC (contours) in the a) *ocean_control* and b) *ice_control* simulations and c,d) the respective *1000CCN* simulations



Figure 3. Cloud droplet mean radius (colors) and LWC (contours) in the a) *ocean_control* and b) *ice_control* simulations and c,d) the respective *1000CCN* simulations



Figure 4. Ice crystal number concentration (colors) and IWC (contours) in the a) *ocean_control* and b) *ice_control* simulations and c,d) the respective *1000CCN* simulations



Figure 5. a,b) LWP and c,d) IWP over the open ocean (left) and sea ice (right) in the *control* run and the respective *101NP* simulations in their regular state and 2 K warmer and colder conditions. The solid lines depict the median, the shading the interquartile ranges.