



## Supplement of

## Impacts of emission reductions on aerosol radiative effects

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Figure S1: Black carbon (BC) emission burden from AeroCom (2000) and the reference simulation (GAINS 2005). The scenario plots show their differences with respect to the reference simulation.



Figure S2: Organic carbon (OC) emission burden from AeroCom (2000) and the reference simulation (GAINS 2005). The scenario plots show their differences with respect to the reference simulation.



Figure S3: Sulphur dioxide  $(SO_2)$  emission burden from AeroCom (2000) and the reference simulation (GAINS 2005). The scenario plots show their differences with respect to the reference simulation.



Figure S4: The relative difference of CLEC2020 and CLECC2020 scenarios to the reference run for black carbon (BC), organic aerosol (OA) and sulphate aerosol (SA) burdens.



Figure S5: The yearly mean aerosol absorption from the reference run and the difference between scenarios and the reference run.



Figure S6: The relative difference of CLEC2020 and CLECC2020 scenarios to the reference run for direct radiative effect (DRE), aerosol absorption and cloud radiative effect (CRE).