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Optimized step size control within the Rosenbrock solvers for stiff chemical ordinary differential equation systems in KPP version 2.2.3_rs4

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S1 Error analysis

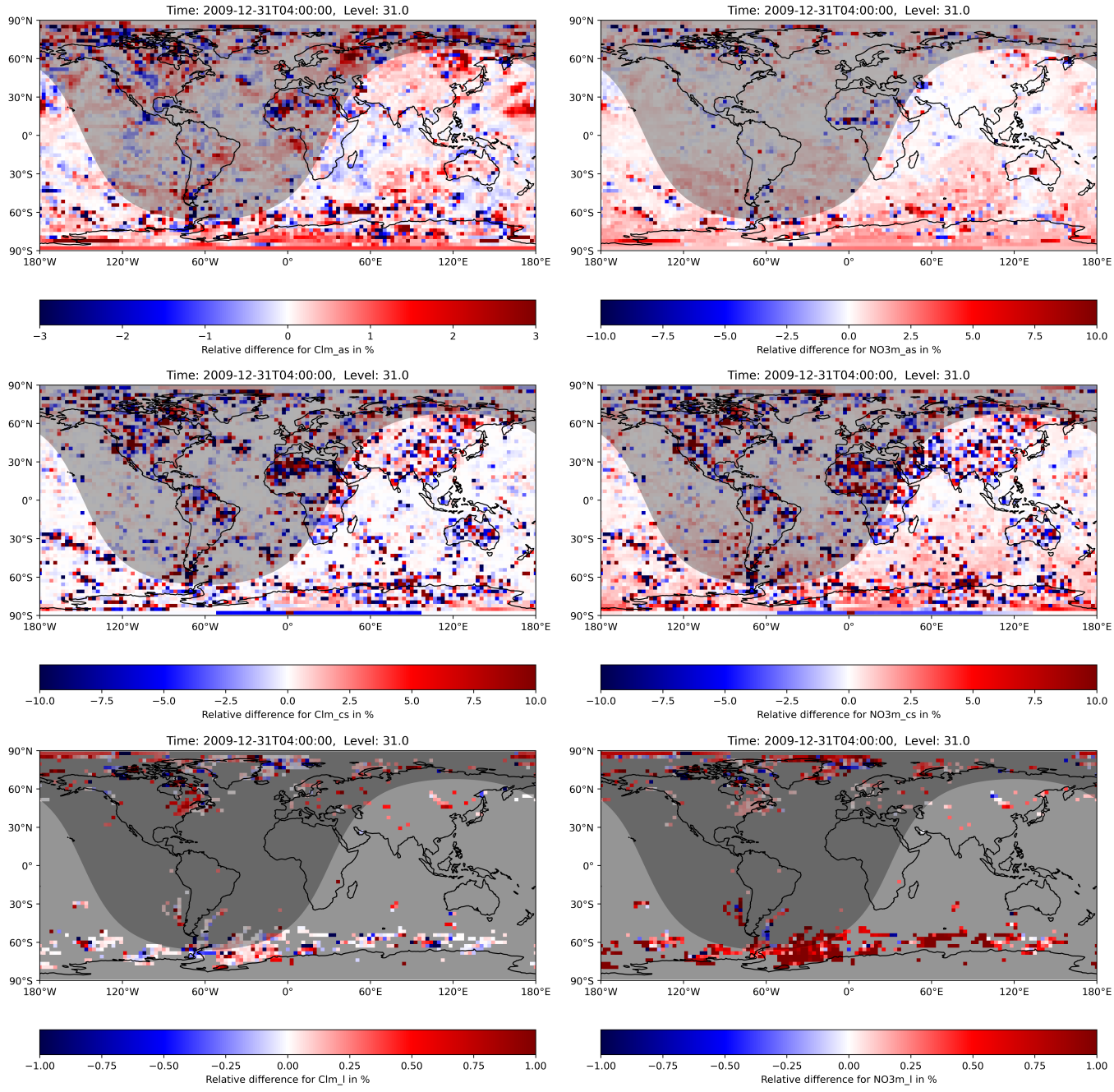

Figure S1. Relative differences of the mixing ratios between the H211b and the reference one-year simulation for NO_3^- and Cl^- in accumulation aerosol mode, coarse aerosol mode and cloud droplets.

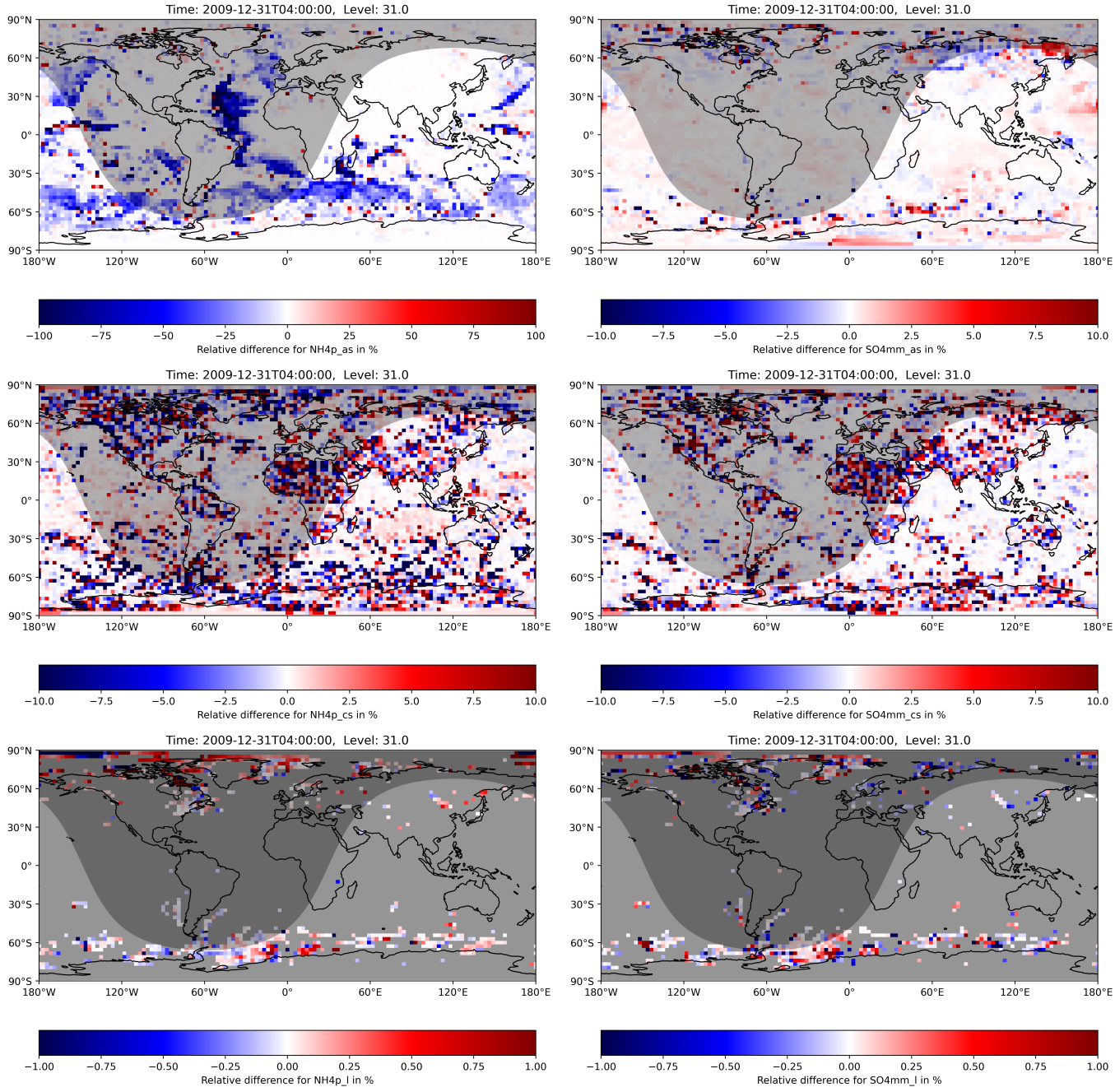

Figure S2. Relative differences of the mixing ratios between the H211b and the reference one-year simulation for SO_4^{2-} and NH_4^+ in accumulation aerosol mode, coarse aerosol mode and cloud droplets.