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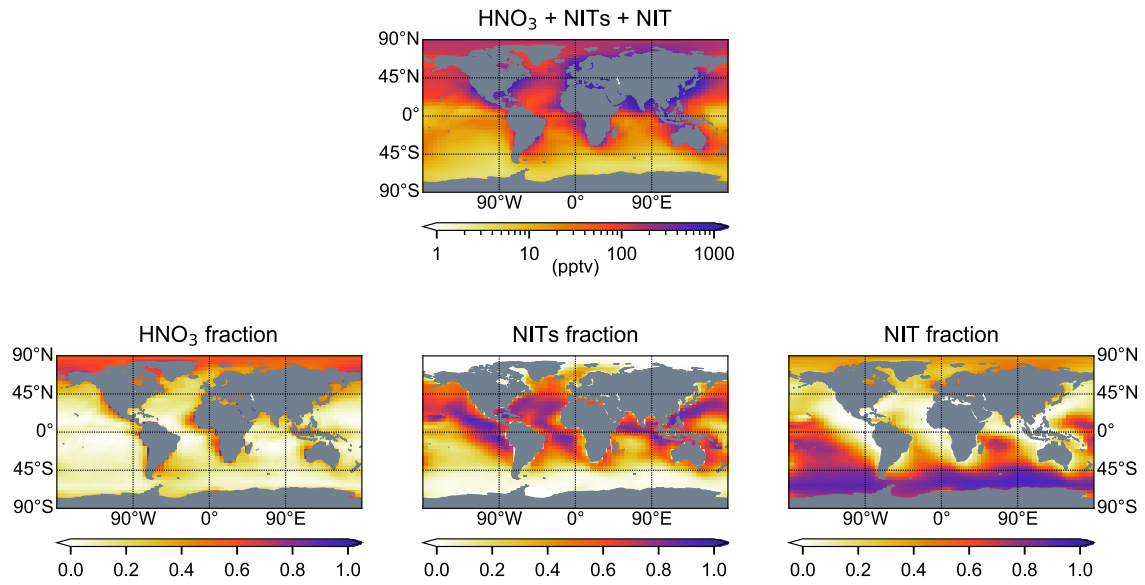
*Supplement of*

## **Global impact of nitrate photolysis in sea-salt aerosol on $\text{NO}_x$ , OH, and $\text{O}_3$ in the marine boundary layer**

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5 Figure S1: Simulated 2014-2015 boundary layer-average (average over bottom 1 km) total gas- and aerosol-phase nitrate (top panel), and fraction of total that is in the gas-phase (bottom left panel), in coarse-mode SSA (bottom middle panel), and in accumulation-mode aerosol (bottom right panel) for the updated model.

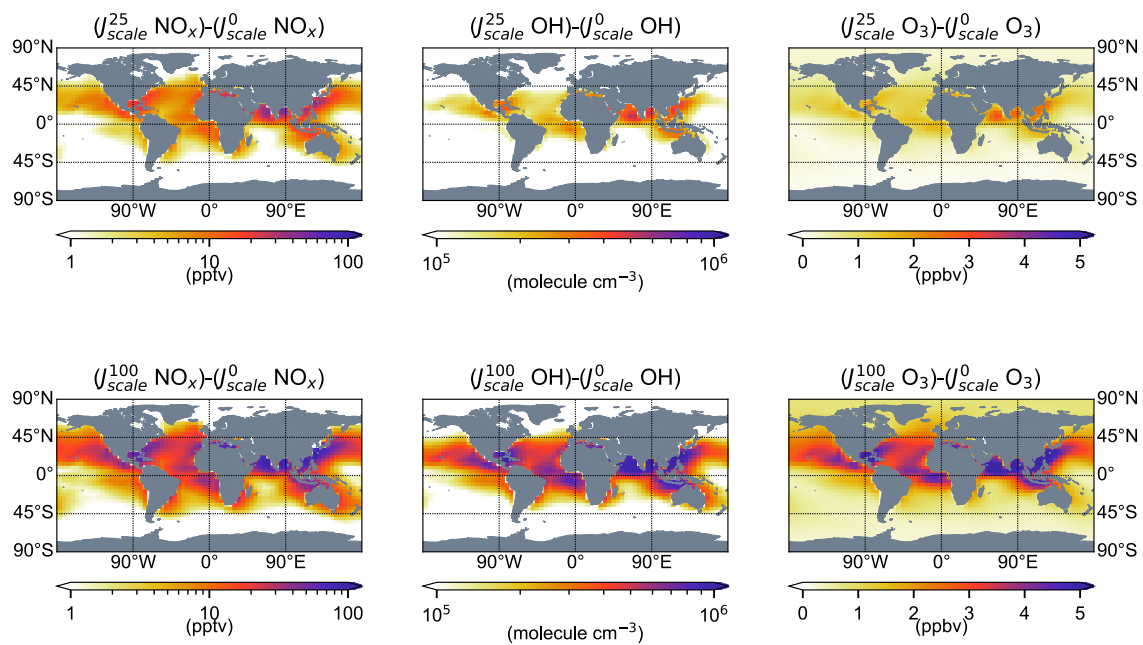


Figure S2: Simulated increases in 2014-2015 MBL-average (average over bottom 1 km)  $\text{NO}_x$  (left panels), OH (middle panels) and  $\text{O}_3$  (right panels) for the  $J_{scale}^{25}$  (top panels) and  $J_{scale}^{100}$  (bottom panels) model runs relative to the  $J_{scale}^0$  model run.