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.
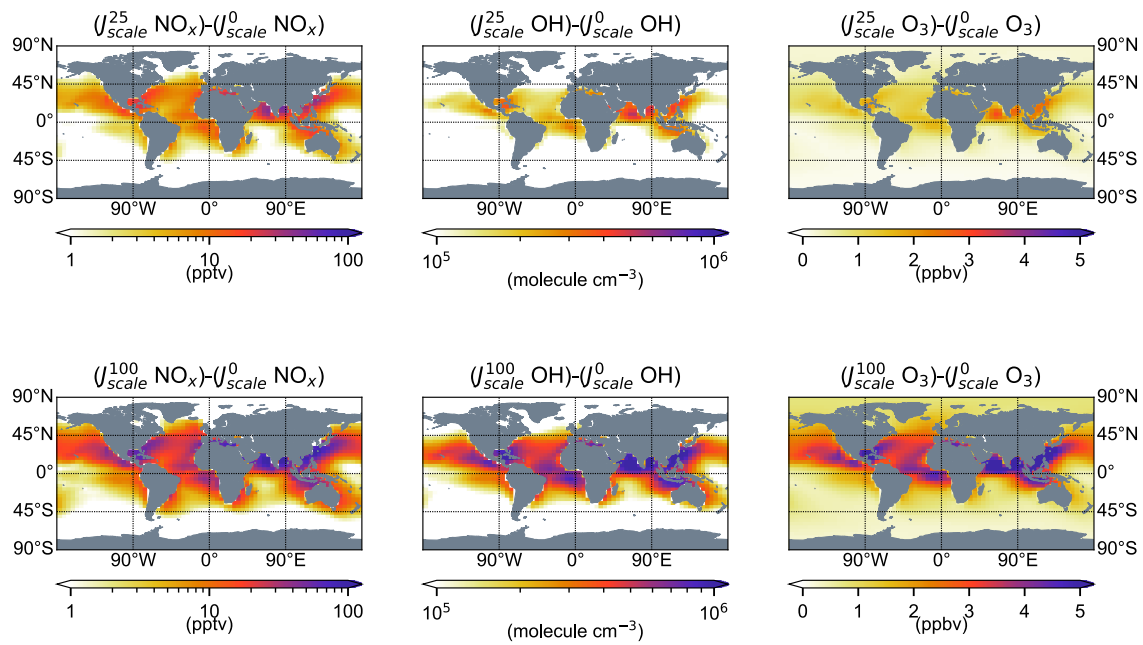
Figure S2: Simulated increases in 2014-2015 MBL-average (average over bottom 1 km) NO_x (left panels), OH (middle panels) and O_3 (right panels) for the J^{25}_{scale} (top panels) and $\boldsymbol{J^{100}_{scale}}$ (bottom panels) model runs relative to the $\boldsymbol{J^{0}_{scale}}$ model run.

5