



Supplement of

Background nitrogen dioxide (NO₂) over the United States and its implications for satellite observations and trends: effects of nitrate photolysis, aircraft, and open fires

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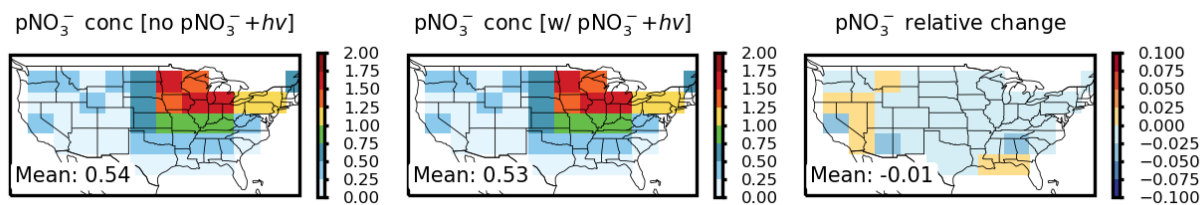


Figure S1. Simulated surface particulate nitrate (pNO_3^-) concentrations in CONUS 2017. From left to right shows the result without nitrate photolysis (unit: $\mu\text{g m}^{-3}$), with nitrate photolysis (unit: $\mu\text{g m}^{-3}$), and the relative change (unit: 1) from nitrate photolysis. Mean values over CONUS are given inset.

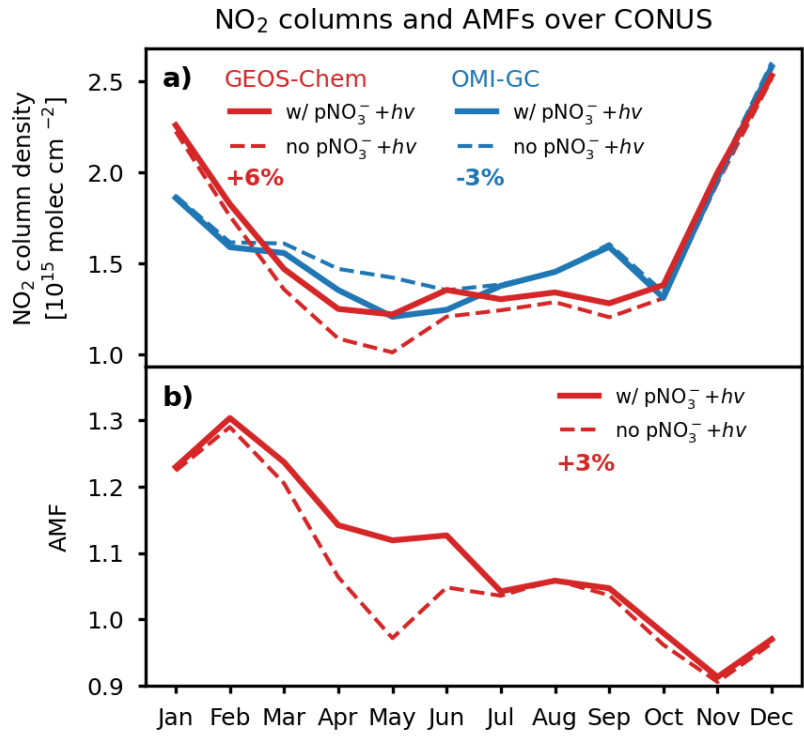


Figure S2. Same as Figure 4 except for year 2009.