

Figure S1. Modeled mean dust concentrations in the surface air over China during 2-7 May (left), on 3 May (middle) and on 5 May (right).

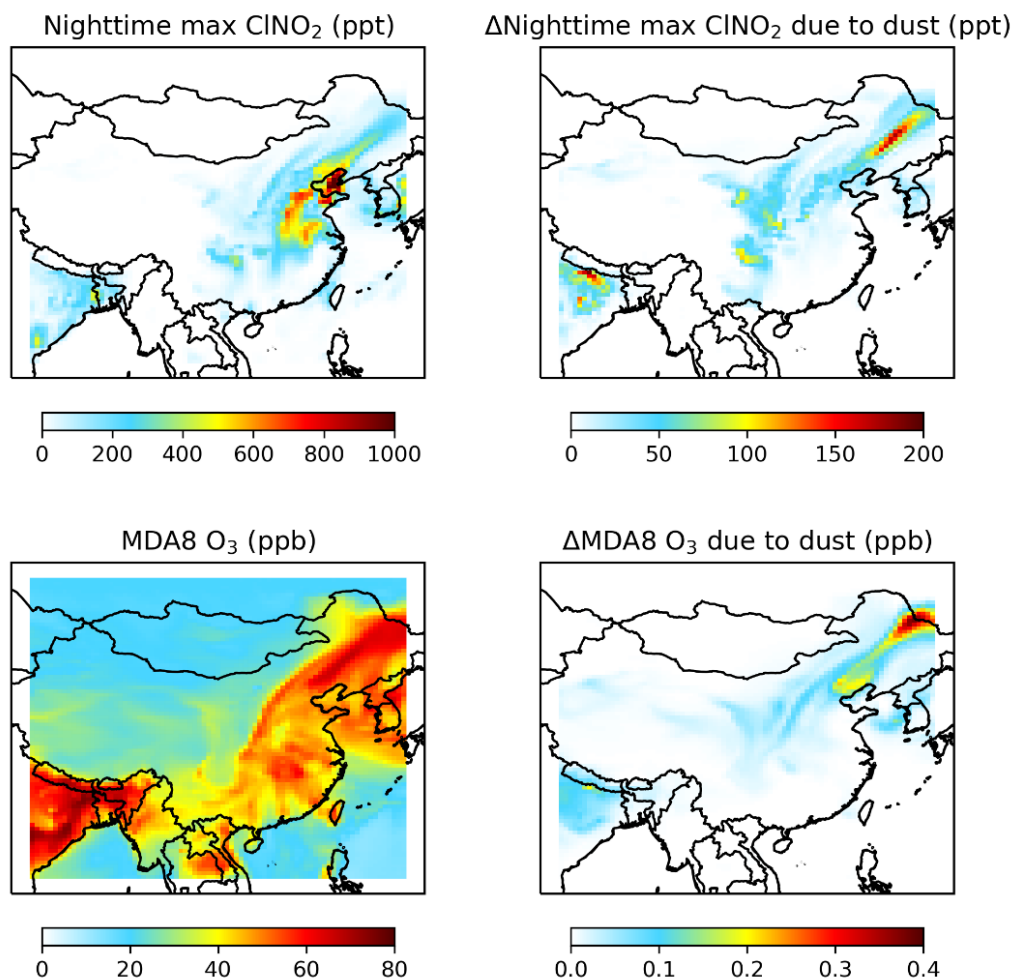


Figure S2. Modeled weekly mean mixing ratios of nighttime maximum CINO₂ (upper panels) and maximum daily 8-h average (MDA8) ozone (bottom panels) in surface air over China on 3 May 2017. The left panels show simulated mixing ratios in our standard case in which $\varphi(\text{CINO}_2)$ is assumed to be 0 for N₂O₅ uptake onto dust aerosol. The right panels show impacts of CINO₂ formation due to N₂O₅ uptake onto dust, calculated as the difference between the standard case and the case in which $\varphi(\text{CINO}_2)$ is assumed to be 0.1 for N₂O₅ uptake onto dust.

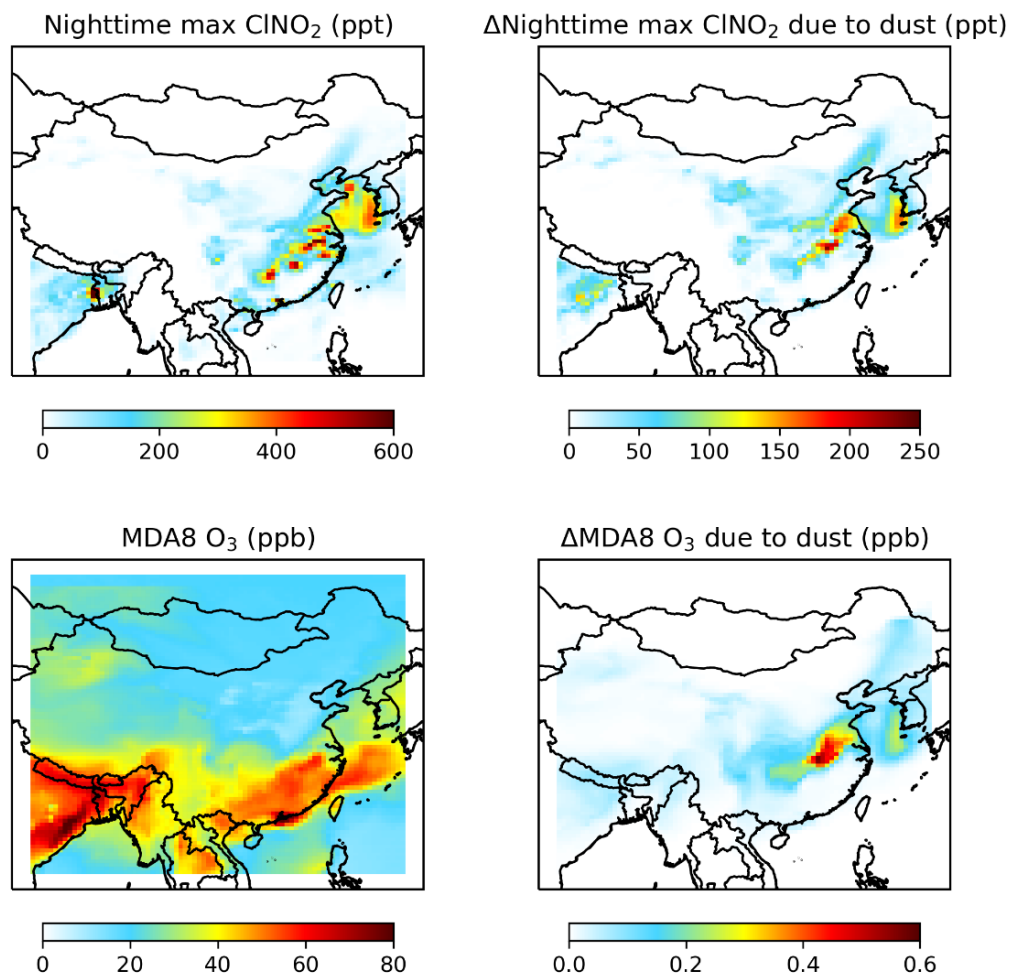


Figure S3. Same as Figure S2 but for 5 May 2017.