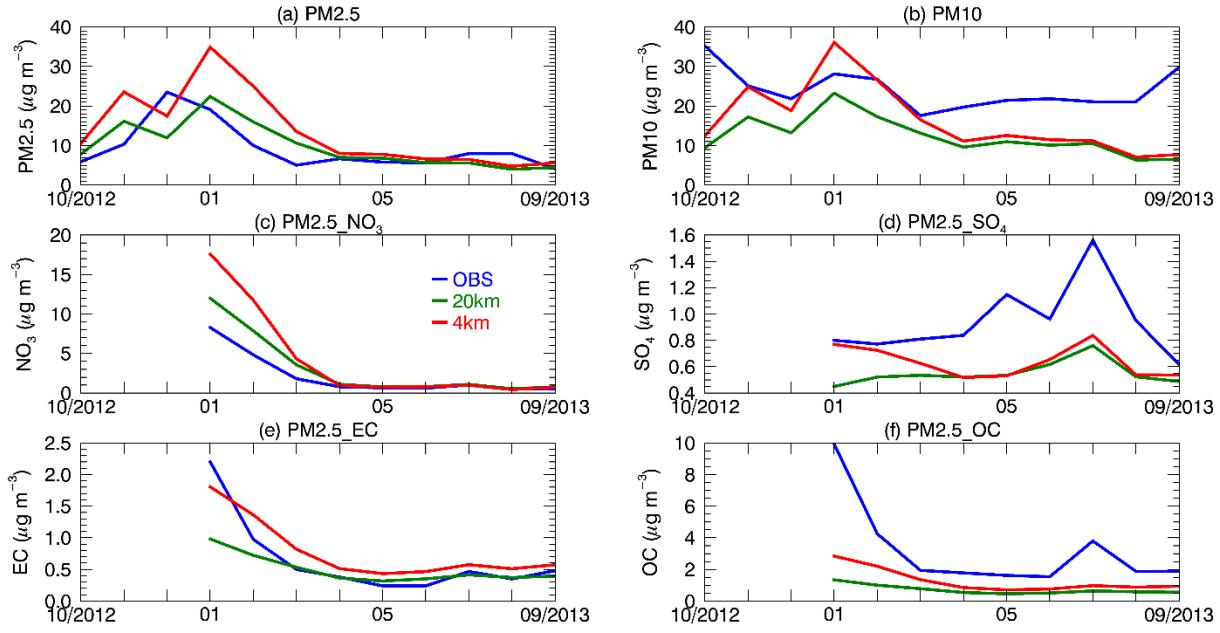


1 2 3 4 Supplementary Figure 1. Aerosol mass ($\mu\text{g m}^{-3}$) for different species from EPA CSN (OBS), 20km
 and 4km simulations at Bakersfield, CA. PM2.5_NO₃ represents NO₃ with diameter $\leq 2.5 \mu\text{m}$.
 Similar definition for SO₄, EC and OC in the figures.



5 Supplementary Figure 2. Aerosol mass ($\mu\text{g m}^{-3}$) for different species from EPA CSN (OBS), 20km
6 7 and 4km simulations at Modesto, CA.