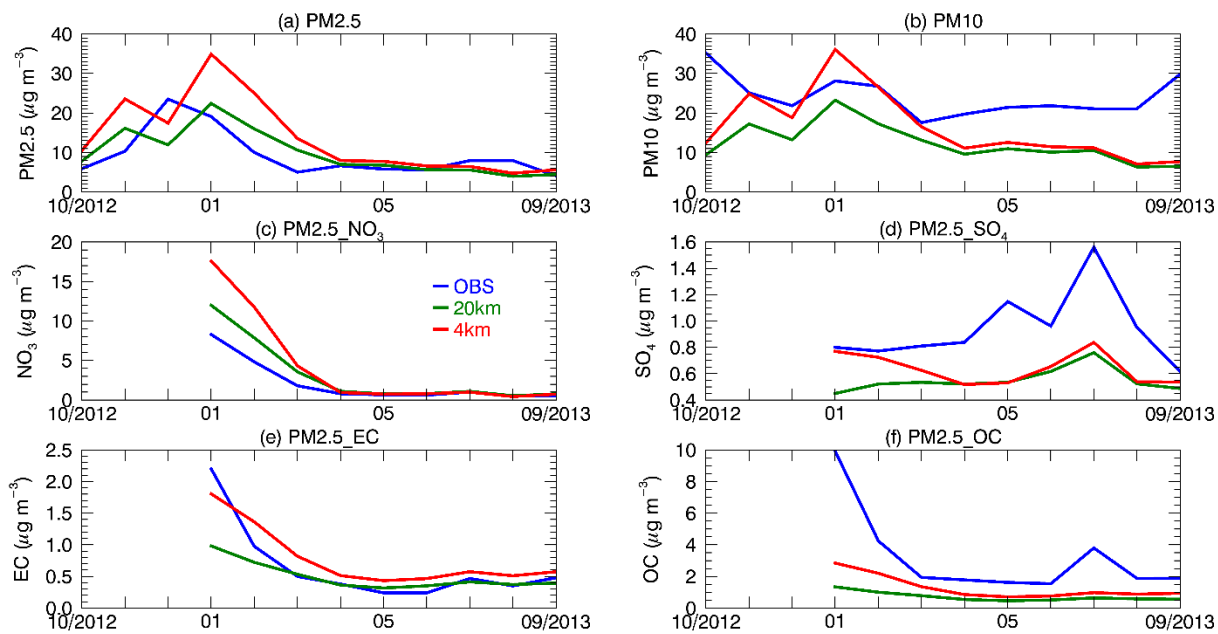


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- 2 Supplementary Figure 1. Aerosol mass ($\mu\text{g m}^{-3}$) for different species from EPA CSN (OBS), 20km
- 3 and 4km simulations at Bakersfield, CA. PM2.5_NO₃ represents NO₃ with diameter $\leq 2.5 \mu\text{m}$.
- 4 Similar definition for SO₄,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



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