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Supplement of

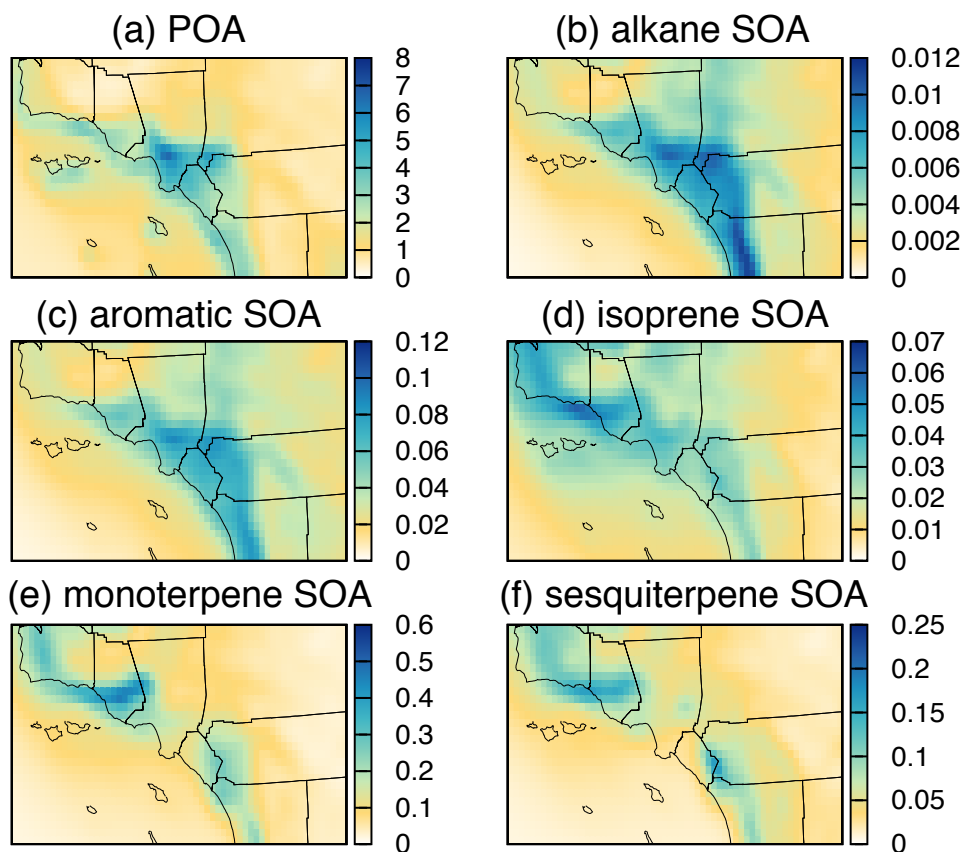
Multi-generational oxidation model to simulate secondary organic aerosol in a 3-D air quality model

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SOM (low yield)



SOM (high yield)

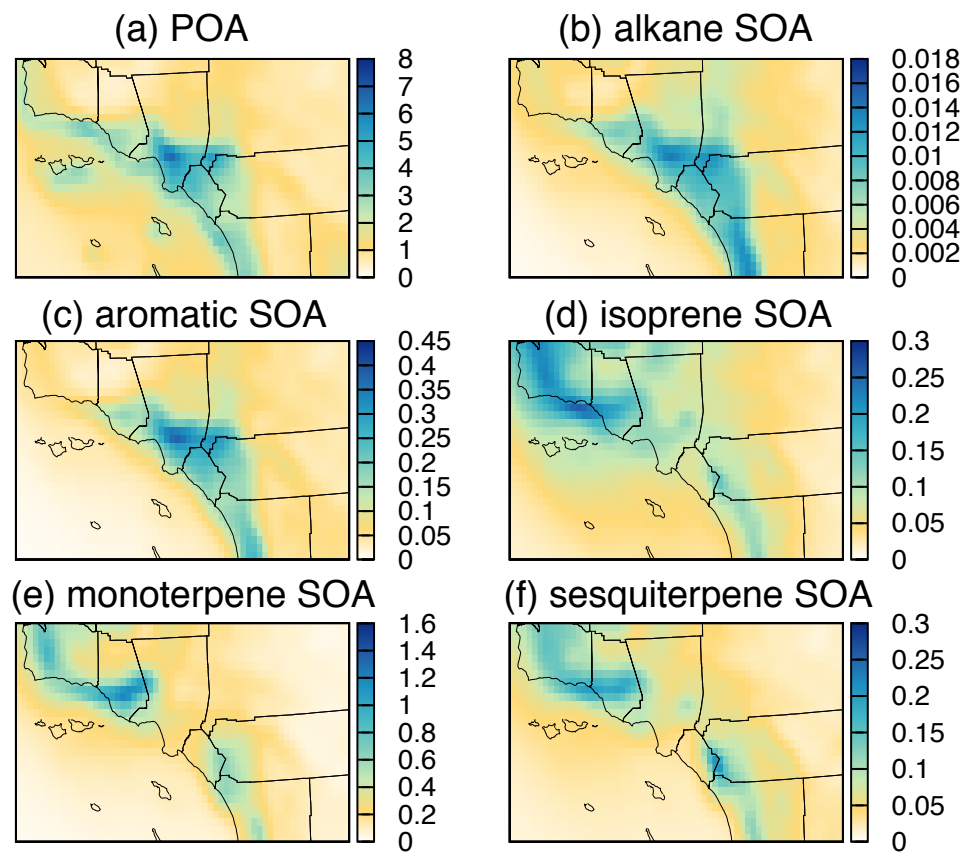
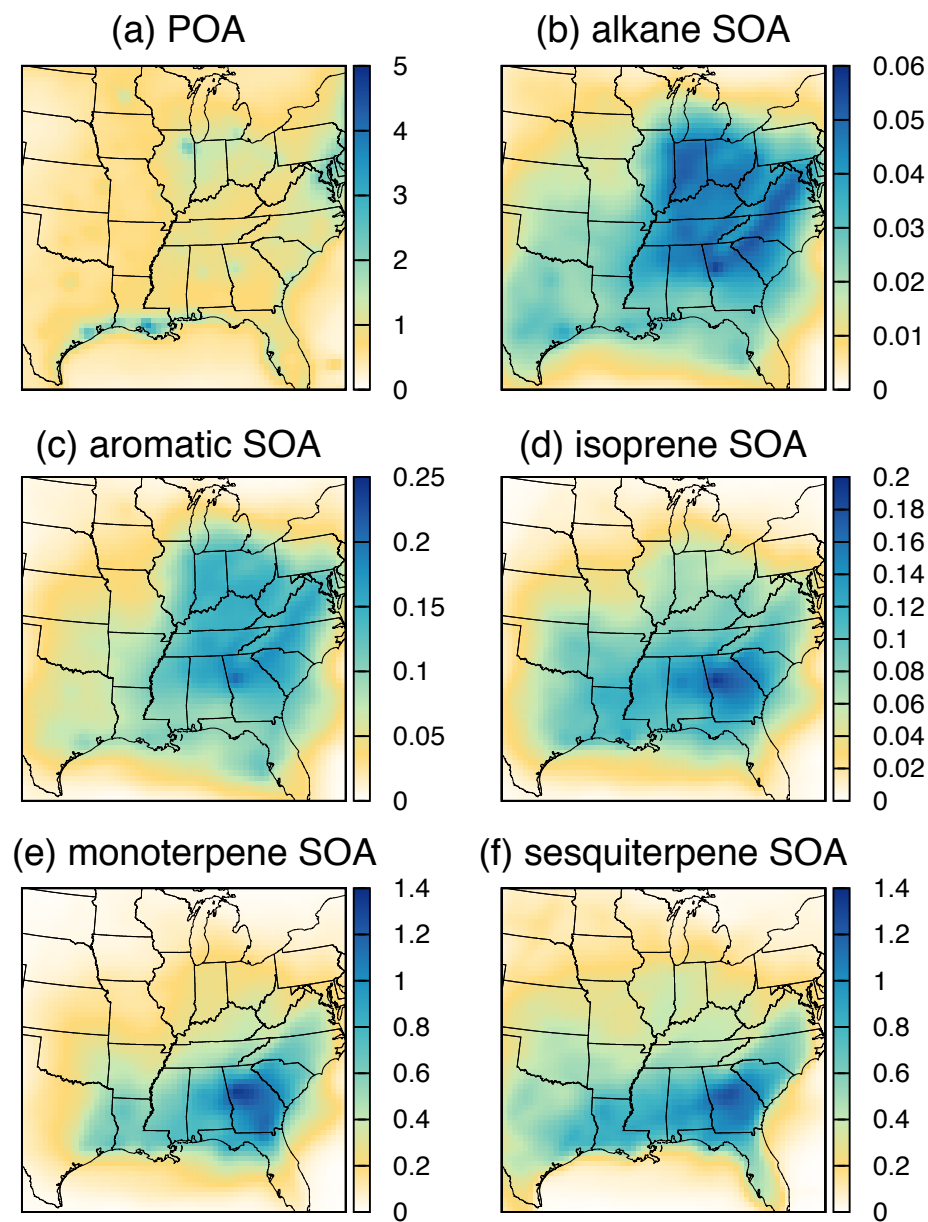


Figure S.1: 2-week averaged concentrations of (a) POA, (b) alkane SOA, (c) aromatic SOA, (d) isoprene SOA, (e) monoterpene SOA and (f) sesquiterpene SOA in $\mu\text{g m}^{-3}$ for the SOM (low yield) simulations. Note the different color scales for each SOA precursor and between the low yield and high yield simulations.

SOM (low yield)



SOM (high yield)

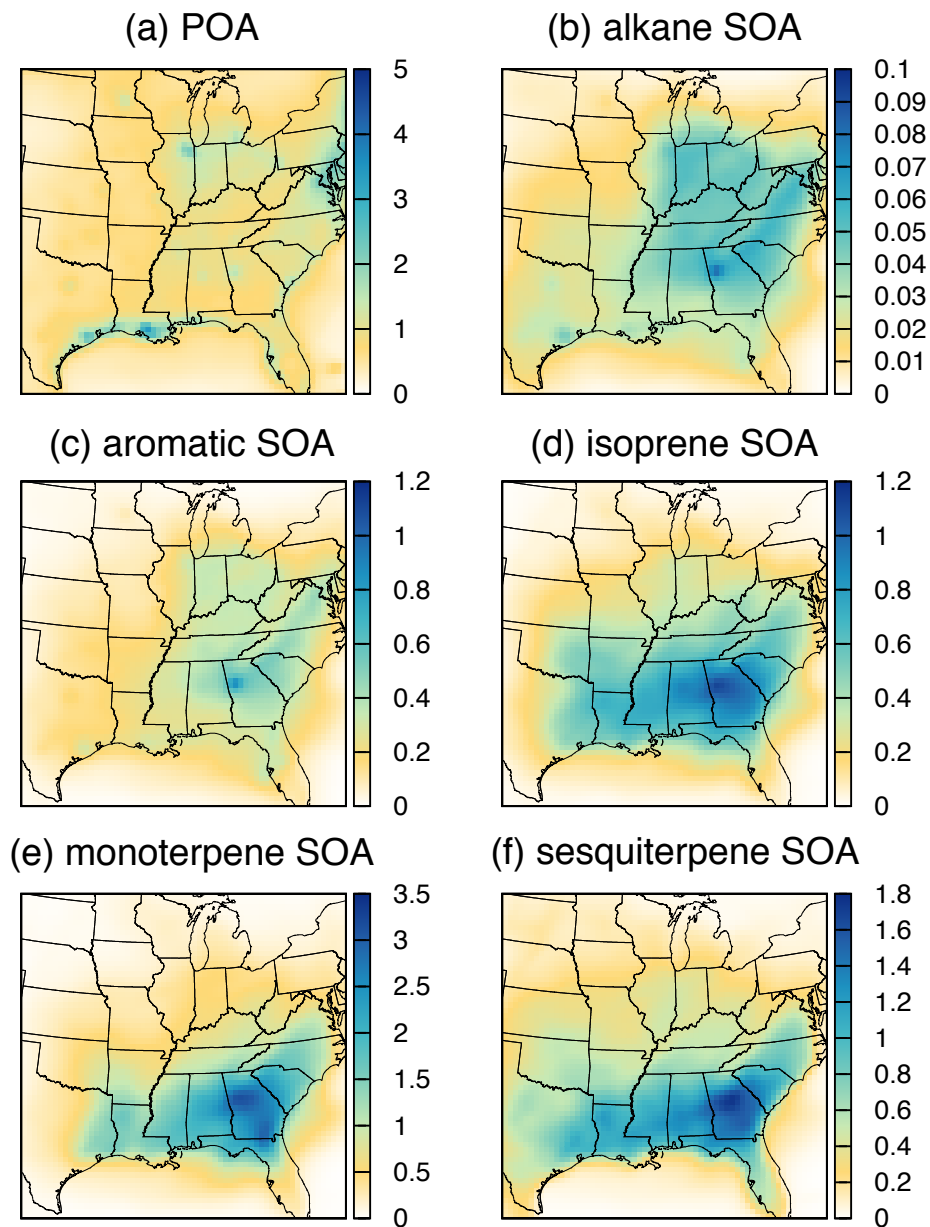


Figure S.2: 2-week averaged concentrations of (a) POA, (b) alkane SOA, (c) aromatic SOA, (d) isoprene SOA, (e) monoterpene SOA and (f) sesquiterpene SOA in $\mu\text{g m}^{-3}$ for the SOM (low yield) simulations. Note the different color scales for each SOA precursor and between the low yield and high yield simulations.