Supporting Information

Estimated Effects of Temperature on Secondary Organic Aerosol Concentrations

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6 pages

Figure S1. Daily temperature profiles used in model simulations.

Figure S2. Daily concentration profiles for AP and S_1+S_2 in base case simulation. [AP] is gas-phase concentration. $[S_1]+[S_2]$ is the sum of gas- and aerosol-phase concentrations for both compounds.

Figure S3. Daily AP organic aerosol concentrations for three temperature profiles, $T = 25 \pm 0, \pm 5, \pm 10\ ^{\circ}C$.

Figure S4. Daily AP organic aerosol concentrations for $H_i = 0, 10, 17.5, 25$ kcal mol^{-1}.

Figure S5. Daily AP organic aerosol concentrations for HYA emissions = 0.5, 1.0, 2.0 times base case simulation levels.

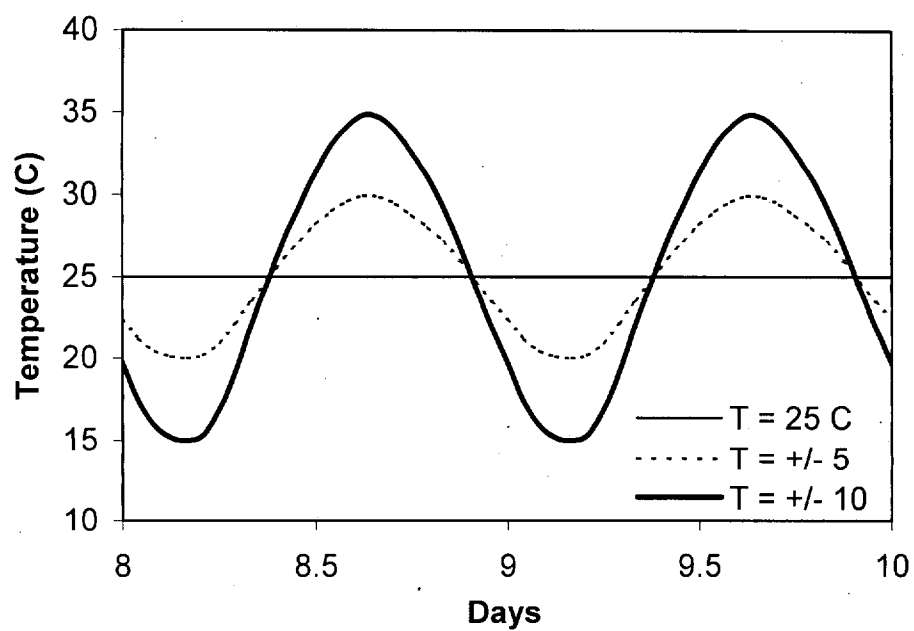**Figure S6.** Daily AP organic aerosol concentrations for POA = 0, 10, 20 μg m^{-3}.

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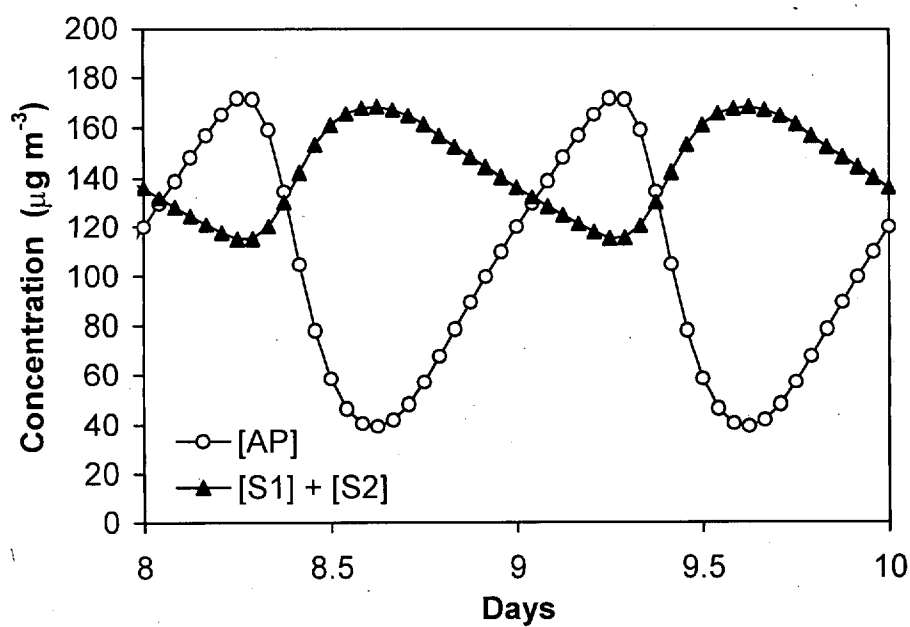
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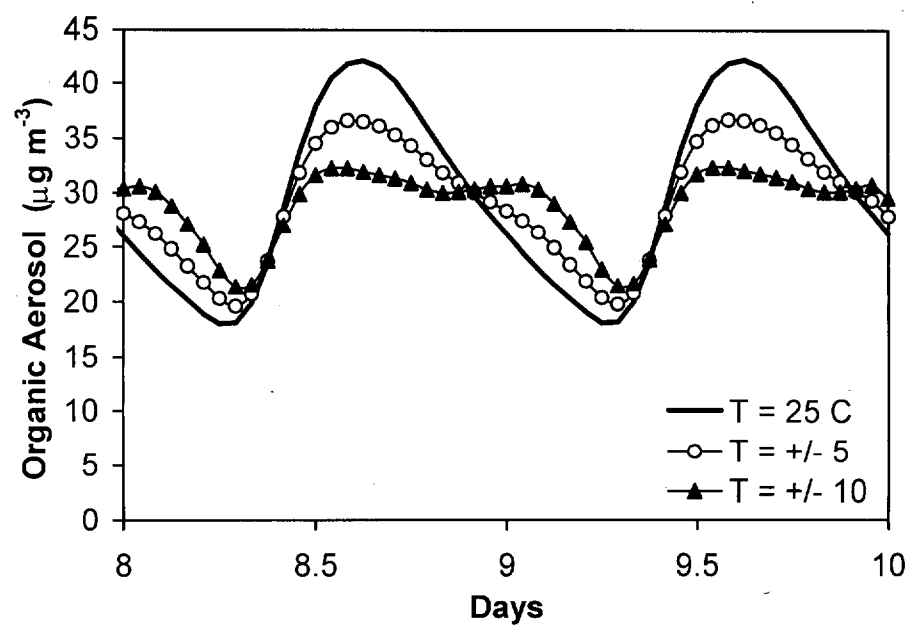
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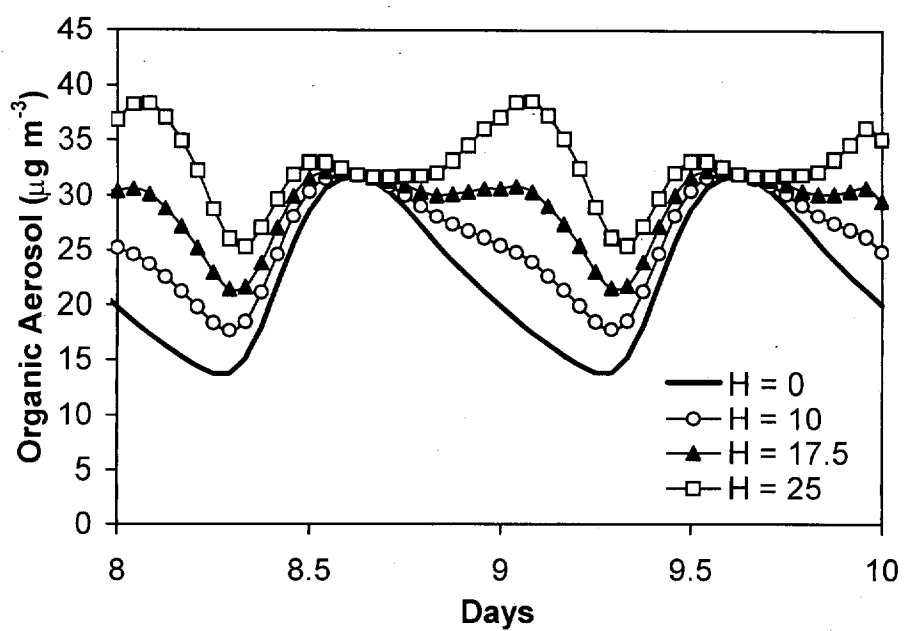
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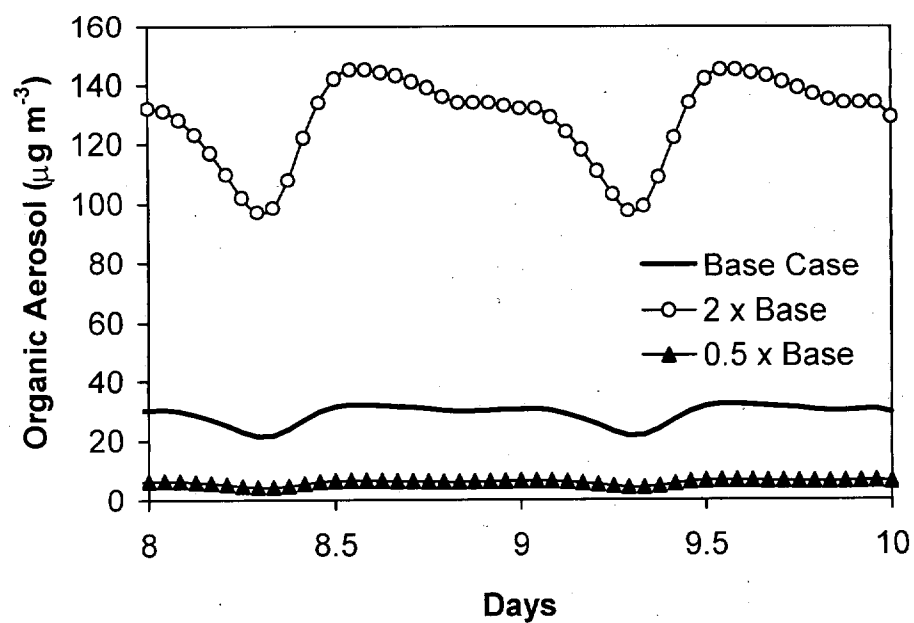
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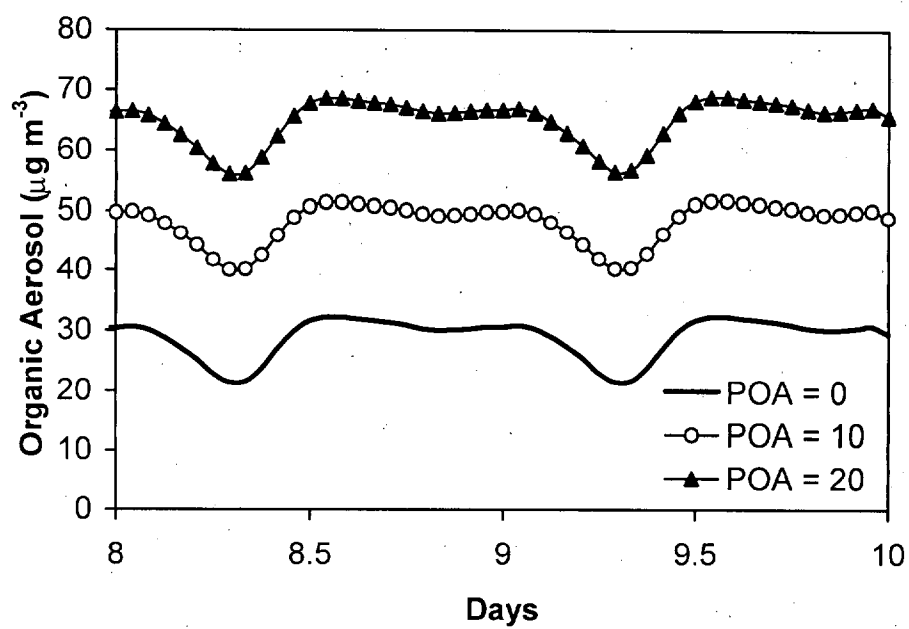
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