Environmental Science: Atmospheres

Electronic supplementary information for

URMELL – Part II: Semi-explicit isoprene and aromatics gasSOA modelling

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Supplement S2

Supplement S2 contains map plots of the total and individual aromatic gasSOA and precursor substance concentrations for 3, 13, 19 and 23 UTC. All map plots have been generated using python and the data is available at Zenodo at https://doi.org/10.5281/zenodo.11444412.



Fig. S2-1: Total aromatic gas-phase concentration on the 20th of May 2014 for RACM a), e), i) and m); URMELL b), f), j) and n); difference between URMELL and RACM c), g), k) and o); difference between URMELL including the possible aqSOA precursor substance MALANHY and RACM d), h), l) and p) for 3 UTC, 13 UTC, 19 UTC and 23 UTC respectively.



Fig. S2-2: Contribution of the individual aromatic gasSOA precursor substances to the gas phase at 3 UTC. Note, the changing magnitude of the individual figures starting with the highest concentrations.



Fig. S2-3: Contribution of the individual aromatic gasSOA precursor substances to the gas phase at 13 UTC. Note, the changing magnitude of the individual figures starting with the highest concentrations.



Fig. S2-4: Contribution of the individual aromatic gasSOA precursor substances to the gas phase at 19 UTC. Note, the changing magnitude of the individual figures starting with the highest concentrations.



Fig. S2-5: Contribution of the individual aromatic gasSOA precursor substances to the gas phase at 23 UTC. Note, the changing magnitude of the individual figures starting with the highest concentrations.



Fig. S2-6: Contribution of the individual aromatic gasSOA precursor substances to the particle phase at 13 UTC. Note, the changing magnitude of the individual figures starting with the highest concentrations.



Fig. S2-7: Contribution of the individual aromatic gasSOA precursor substances to the particle phase at 19 UTC. Note, the changing magnitude of the individual figures starting with the highest concentrations.



Fig. S2-8: Contribution of the individual aromatic gasSOA precursor substances to the particle phase at 23 UTC. Note, the changing magnitude of the individual figures starting with the highest concentrations.