

Interactive comment on “Photochemical production of aerosols from real plant emissions” by Th. F. Mentel et al.

Anonymous Referee #2

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This is a very interesting paper, studying the photochemistry and particularly the aerosol formation from a real mixture of volatile organic compounds emitted by plants. The presented concept and set up are innovative and the results clearly stated and interpreted. I consider this paper suitable for publication in Atmospheric Chemistry and Physics.

I suggest below a few changes that will further clarify the experiments and some discussion parts of the manuscript.

Abstract line 23 (also page 3072 first paragraph): The calculations presented here also assume no change in the oxidant levels in the future atmosphere which is not what the models calculate.

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P 3046, line 20: It is not only OH driven chemistry but also O₃ driven since O₃ was measured in the chamber at significant levels as mentioned in section 2.3.

P3050, lines 23-27: It is interesting to provide information on the emission patterns under stress – since such conditions might occur in a future atmosphere.

P 3053, last paragraph: Was all C in the chamber measured?

Table 2: Could you comment on the sesquiterpenes emissions non-attributed to individual species? They seem to be the majority of the sesquiterpenes emissions.

Finally in the main text there is a systematic typo in the units: g cm³ should be g cm⁻³ and ug m³ should be ug m⁻³

Interactive comment on Atmos. Chem. Phys. Discuss., 9, 3041, 2009.

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