

Interactive comment on “Chemical characterization of biogenic SOA generated from plant emissions under baseline and stressed conditions: inter- and intra-species variability for six coniferous species” by C. L. Faiola et al.

Anonymous Referee #1

Received and published: 16 October 2014

The article 'Chemical characterization of biogenic SOA generated from plant emissions under baseline and stressed conditions: inter- and intra-species variability for six coniferous species' by Faiola et al. present a laboratory study on how the composition of SOA from plant emissions is affected by herbivore stress. The article is well suited for the journal, and provides an original and substantial contribution to the field.

The article is very well written, the experimental conditions and results are explained in detail and the science is sound. Therefore I suggest publishing the article after the

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following very minor comments are addressed.

Conclusions: most of this section is used for addressing future study needs. However, I would like you to comment on the significance of your results in the light of the aims/motivation given in the introduction. I.e. do you think the observed differences in the SOA spectra due to stress could have an impact on the radiative properties and thus climate? What should be done to address this issue? Did the SOA yield change due to stress treatment and is this change more significant than the change in composition?

Technical comments: -p.25175, row 27, is → in -Table 2. some of the column titles should be explained (Bio/Aero chamber, T0, T1) -Figure 9. What does the dashed lines represent?

Interactive comment on Atmos. Chem. Phys. Discuss., 14, 25167, 2014.

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