

Interactive comment on “Impacts of simulated herbivory on VOC emission profiles from coniferous plants” by C. L. Faiola et al.

Anonymous Referee #2

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The research discussed in the manuscript by Faiola et al. is a novel and important addition to our collective knowledge of tree/insect interactions and their effects on VOC emissions. The emission profiles of six coniferous species, both before and after simulated herbivory by methyl jasmonate, are discussed. The atmospheric impact of the changes in VOC emissions are estimated by the calculation of hydroxyl radical and ozone lifetimes. Perhaps one of the most noteworthy findings is that trees species which may be considered low VOC emitters became high VOC emitters by simulated herbivory, and this suggests that careful consideration of tree species should be made when simulating the effects of herbivory on the changes in VOC emissions.

Technical corrections: 1.) I believe that chemical names do not need to be capitalized, thus the legend in figure 1, for example, could be corrected. Also, in the text, myrcene

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(p. 13481 line 26) and phellandrene (p. 13475 line 19) do not need to be capitalized. 2.) The number of replicated in each experiment should be more explicitly stated, by indicating the number of replicated in Table 1. 3.) Please indicate the physical meaning of the error bars in the caption of Figure 1 (standard error?, and of what?)

Interactive comment on Biogeosciences Discuss., 11, 13455, 2014.

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