

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

Anonymous Referee #3

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Overall, I found this paper to be of high quality and suitable for publication with minor revisions.

1. I would strongly suggest that the introduction is shorten and focus more directly on previous research on BVOC emissions directly related to herbivore stress on coniferous forest. Currently the introduction is quite broad focusing on BVOC emissions and many different stresses in general.

Here are a few publications that should be included. Additionally, the references within these papers, should be considered.

Amin, Hardik S, Rachel S. Russo, Barkley Sive, E. Richard Hoebeke, Craig Dodson, Ian B. McCubbin, A. Gannet Hallar, Kara E. Huff Hartz, Monoterpene emissions from

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bark beetle infested Engelmann spruce trees, Atmospheric Environment, Volume 72, June 2013, Pages 130–133.

Berg, A. R., Heald, C. L., Huff Hartz, K. E., Hallar, A. G., Meddens, A. J. H., Hicke, J. A., Lamarque, J.-F., and Tilmes, S.: The impact of bark beetle infestations on monoterpene emissions and secondary organic aerosol formation in western North America, Atmos. Chem. Phys., 13, 3149-3161, doi:10.5194/acp-13-3149-2013, 2013.

Amin, H., P.T. Atkins, R. Russo, A. W. Brown, B. Sive, A. G. Hallar, K.E. Huff Hartz, 2012: Effect of Bark Beetle Infestation on Secondary Organic Aerosol Precursor Emissions, Environmental Science & Technology, DOI: 10.1021/es204205m.

Jost et al., Monoterpene emissions from lodgepole and jack pine bark inoculated with mountain pine beetle-associated fungi. J. Wood Chem. Technol, 2008.

Prieme et al., Herbivory by the weevil, *Strophosoma melanogrammum*, causes several fold increase in emission of monoterpenes from young Norway spruce, Atmos. Environ., 2000.

Minor comments:

Line: 187 – delete "presented in this chapter"

Overall, this is a well written paper.

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

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