

Faiola et al., Biogeosciences Discuss., 11, 13455-13514, 2014

Response to Anonymous Referee #3

We thank the reviewer for her/his supportive and constructive comments. We have revised the manuscript in several instances to address the reviewer's concerns, and believe the paper is stronger as a result. This response will address the concerns in the order they were raised. Reviewer comments are in bold italics, with the authors' response indented in plain text below.

General Comments

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

Thank you for this positive feedback.

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.

We appreciate this suggestion. Two paragraphs will be removed from the introduction so that it focuses more specifically on herbivore stress emissions. Other minor changes will also be made to the introduction so that its flow is maintained.

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

Thank you for providing these highly relevant references. We have added the following statement with citations to a paragraph in the introduction where herbivore stress plant responses were summarized:

"The presence of herbivore infestation can increase BVOC emissions by 4-fold to 20-fold (Amin et al, 2012, 2013; Berg et al., 2013), and this response can last for several weeks (Priemé et al., 2000). These results suggest that herbivore stress could have a substantial impact on SOA formation in forest environments in the future."

Minor Comments

Line 187: Delete "presented in this chapter".

This clause has been removed.