

Interactive comment on “Methanol and Isoprene Emissions from the Fast Growing Tropical Pioneer Species *Vismia guianensis* (Aubl.) Pers. (Hypericaceae) in the central Amazon Forest” by K. J. Jardine et al.

Anonymous Referee #1

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General Comment:

Jardine et al. conducted in situ observations of isoprene, methanol emissions from the pioneer species in central Amazon Forest. The major focus of this study was set on the emission responses to light and temperature as well as the change of emissions with respect to the leaf age. The experiment is well done, the manuscript is well structured and written, the reference list is conclusive and plots are clear. Thanks very much. There are two questions should be addressed before the final acceptance, which the paper deserves.

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Minor comments:

1. As there is only a single-noon measurements of ambient isoprene concentration, why do authors believe the measurements supports “the potential for widespread occurrence of Is emissions from secondary forest tree species” in the Amazon? Were the measurements representative? What were the situation on the day of sampling (was it too hot, or any other stimulating factor existing)?
2. In line 322-323, “Both Is emissions and Pn increased together with leaf temperature ...”. But Fig.3 clearly shows a decrease of Pn. Could you please check.

Interactive comment on Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2016-53, 2016.

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