

Interactive comment on “IASI-derived NH₃ enhancement ratios relative to CO for the tropical biomass burning regions” by Simon Whitburn et al.

Anonymous Referee #2

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The paper by Whitburn is interesting and well written. I recommend publications.

I find myself asking two questions. I leave it to the authors to decide if these are within the scope of the paper.

1) Flaming vs. smoldering fires might have quite different CO but similar NH₃. Is anything known? The paper gives the impression that CO is more constant than NH₃. I don't know if that is true, but I think the paper should comment on whether variability is driven more by CO changes or more by the N-content of fuels. For example, wood has zero N, a recent paper Coggon et al. Geophys. Res. Lett. 2016 pointed out that residential wood burning has near zero emissions of N-compounds.

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2) The relationship to NO₂. Are the NH₃ and NO₂ columns related?

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Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2017-331>,
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