

## ***Interactive comment on “IASI-derived NH<sub>3</sub> 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 NH<sub>3</sub>. Is anything known? The paper gives the impression that CO is more constant than NH<sub>3</sub>. 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 NO<sub>2</sub>. Are the NH<sub>3</sub> and NO<sub>2</sub> columns related?

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