

Interactive comment on “Anthropogenic influence on biogenic secondary organic aerosol” by C. R. Hoyle et al.

J.-L. Jimenez

jose.jimenez@colorado.edu

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I realized that a sentence in my previous comment was not written correctly. The first full paragraph on page C8626 of my previous comment should read instead:

"In any case the non-fossil fraction of urban OA may be more far important than the authors seem to acknowledge, and needs to be estimated directly in any study attempting to use ^{14}C data in urban areas for source apportionment. E.g. if in an urban area 50% of the aerosol OC is non-fossil, many readers of this paper will assume that this 50% of OC is biogenic SOA (a different crowd will assume this 50% OC is from biomass burning) and the other 50% is urban OC. However if 25% of the POA and a similar fraction of the SOA is due to cooking and another 10% of the POA and SOA to other urban sources of non-fossil carbon (which is not unrealistic, given the previously cited

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papers), a quick calculation shows that only 23% of the OC would be due to non-urban non-fossil sources, while 76% would be due to urban sources. Again, these effects need to be accounted for explicitly in methods such as the one proposed in this paper."

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