

***Interactive comment on* “Rethinking the global secondary organic aerosol (SOA) budget: stronger production, faster removal, shorter lifetime” by A. Hodzic et al.**

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We thank Dr. Andreae for contributing his suggestions. In the caption of Figure 2, we have clarified that the SOA concentration profiles are shown at ambient temperature and pressure:

“Figure 2: Vertical profiles of average SOA concentrations (at ambient temperature and pressure) integrated globally and regionally over the continental U.S. between 2005 and 2008. The ratios between SOA predictions by the NY_DPH and REF runs are also shown for each region.”

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We have also clarified our notations to be conform with SI units, and changed “sm³” to “m³(STP)” as in: “Figure 6: Comparison of mean OA vertical profiles ($\mu\text{g m}^{-3}$ (STP) at 288.15K and 1013.25 hPa).” or “. larger than 16 $\mu\text{g m}^{-3}$ (STP) (where ‘STP’ stands for standard conditions of 273 K and 1 atm)”.

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 32413, 2015.

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