

## ***Interactive comment on “Global dataset of biogenic VOC emissions calculated by the MEGAN model over the last 30 years” by K. Sindelarova et al.***

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An interesting & detailed paper. Well done.

However, I would just like to highlight to the authors, that:

(a) the GOME top-down emissions from the Barkley et al. [2008] paper, correspond to local time (10-12LT), hence the model emission presented in the paper must be correspond to this time of day as well. Is this the case?

(b) New estimates for the Amazon derived from SCIAMACHY and OMI, are presented in Barkley et al. [2013]. In Table 5 of that paper, satellite local-time emission are scaled

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to monthly mean emissions, in order to calculate the region's annual emissions (for 2006). From a range of inversion scenarios, the annual emissions for 2006 where 93 +/- 5 TgC from SCIAMACHY and 56 +/- 3 TgC from OMI.

Reference

Barkley, M. P., I. De Smedt, M. Van Roozendaal, T. P. Kurosu, K. Chance, A. Arneth, D. Hagberg, A. Guenther, F. Paulot, E. Marais, and J. Mao: Top-down isoprene emissions over tropical South America inferred from SCIAMACHY and OMI formaldehyde columns, *J. Geophys. Res.*, 118, 6489-6868, doi: 10.1002/jgrd.50552, 2013

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