

## ***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 dervied 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 were 93 +/- 5 TgC from SCIAMACHY and 56 +/- 3 TgC from OMI.

### Reference

Barkley, M. P., I. De Smedt, M. Van Roozendael, 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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