

Interactive comment on “The Model of Emissions of Gases and Aerosols from Nature version 2.1 (MEGAN2.1): an extended and updated framework for modeling biogenic emissions” by A. B. Guenther et al.

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The description and update of the non-isoprene VOCs emissions in the MEGAN model is very useful and interesting. After having a quick look at the manuscript many things caught my attention. Nevertheless, I have a few questions.

1) In Table 5 the global emissions of MBO are 0.6 Tg/yr, being more than one order of magnitude lower than what Fu et al., 2008 (DOI:10.1029/2007JD009505) reports using the GEIA inventory. Why this discrepancy? What brought this estimate drastically

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down?

2) Hakola et al., 2006 (doi:10.5194/bg-3-93-2006) reported MBO emissions from Scot pines at the Hyytiälä site in Finland. I assume the emission parameters for MBO are not based on this study because not mentioned in the manuscript. Are the MEGAN results consistent with the reported MBO emissions in Finland ?

3) in Table 5 the global emissions of methanol and ethene combined are higher than the total given at the bottom. Instead of 996 Tg/yr, Stravakou et al., 2011 reported 100 Tg/yr for methanol from MEGAN2.1. So, it looks like a typo, isn't it?

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