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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 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?

Interactive comment on Geosci. Model Dev. Discuss., 5, 1503, 2012.