

Interactive comment on “Modeling natural emissions in the Community Multiscale Air Quality (CMAQ) model – Part 1: Building an emissions data base” by S. N. Smith and S. F. Mueller

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Thank you for your review and comments.

Regarding the inclusion of a short discussion on the impacts of this new database on the model; we do have model results available; however, these results are discussed in a separate manuscript recently submitted for review to ACP entitled, "Modeling Natural Emissions in the Community Multiscale Air Quality (CMAQ) Model-II: Modifications for Simulating Natural Emissions," by Stephen F. Mueller, Qi Mao, and Jonathan W. Mallard.

Based on the comments we have received it is clear that there needs to be some
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clarification in our phrasing of the handling of windblown dust in SMOKE/CMAQ and therefore we plan to address this in the final revision. We also agree that we should include mention of MEGAN as well as provide further reference on the disadvantages of neglecting natural emissions. We greatly appreciate your review and we plan to incorporate your suggestions into the final revision.

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