

Interactive comment on “Implementing marine organic aerosols into the GEOS-Chem model” by B. Gantt et al.

Anonymous Referee #2

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Heartfelt apologies for how long it took me to submit this review, especially given how clear and straightforward the paper is. It is within the scope of ACP, makes a contribution to the field which is of scientific significance, and should be published in ACP with only technical corrections.

The sentence starting with “Sea-salt aerosols...” on line 4 of page 5971 should be split into two sentences. In the preceding sentence (“Although marine...”), it might be nice to provide a maximum-minimum range of the different emissions inventories.

On line 2 of page 5975, Frankfurt does not have the English/German spelling.

On page 5976, the words “determined” (line 20) and “particular” (lines 24-25)
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should perhaps be reconsidered.

Please include the R-value and mean bias in the caption for Figure 2.

I am aware that my comments as a referee have been minor and largely linguistic; however, whenever I made a note on the scientific content, I found that it was addressed elsewhere in the paper. This may be related to Anonymous Referee #1’s statement that Gantt and co-authors have published previously on this subject, but as they note, this paper contains new material in the comparison with observations and the insights to MOA aging.

Interactive comment on Geosci. Model Dev. Discuss., 7, 5965, 2014.