

## ***Interactive comment on “Model evaluation of marine primary organic aerosol emission schemes” by B. Gantt et al.***

**B. Gantt et al.**

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It has come to our attention that Eq. (2) in the current paper leads to the prediction of nonphysical values of the organic mass fraction of sea spray aerosol ( $OM_{SSA}$ ). Specifically,  $OM_{SSA}$  values greater than 1 are possible for aerosols with diameters  $< 0.8 \mu\text{m}$  and common for aerosols  $< 0.2 \mu\text{m}$  in diameter in regions of high chlorophyll-a concentrations and low/moderate 10 meter wind speed. In the article, the magnitude-determining coefficient  $A$  (derived by the fitting of submicron mass concentrations predicted by the model to observational data at Amsterdam Island and Mace Head, Ireland) should have been placed outside of the  $OM_{SSA}$  calculation. This modification to Eq. (2) does not alter the results and conclusions of the article, and will be included in the final manuscript in addition to changes associated with reviewer and reader com-

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ments during open discussion. We thank Stefan Barthel for bringing up this issue.

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