

Response to Reviews: Secondary Organic Aerosol Formation from the Oxidation of Decamethylcyclopentasiloxane at Atmospherically Relevant OH Concentrations

Line 44: I don't understand what is meant by "SOA morphology from all D5 oxidation products...". To me this sentence implies that D5 oxidation products were investigated individually. From my understanding of the referenced paper, it was SOA from D5 oxidation that was investigated.

The word "morphology" was removed from this sentence.

- 5 Line 201: "Ideally, we seek to report the OH exposure excluding any regeneration." This sentence is confusing since the discussion on regeneration has been removed. It is also unclear to me why regenerated OH should be excluded from the calculation. It would also contribute to oxidation and would thus affect the chemistry leading to SOA. I think this sentence could probably be removed, but if it remains, the reason for excluding regeneration should be clarified.

We removed this sentence.

- 10 Figure 2 caption: In the last sentence, panel c ($M < 120 \mu\text{g}/\text{m}^3$) should be referenced, not panel b.

This error was fixed.

Figures 2 & 3: Please consider increasing the size of the symbols in the legend to increase readability.

Due to the parameters of making graphics in MATLAB, we elected to leave these legends as is.

- 15 Line 393: I like the addition of this paragraph. It explicitly highlights considerations that are important but are often overlooked. I think though that the idea is relevant to both modelers using the data as well as experimentalists designing experiments or comparing to other work. Please consider adding a sentence or a clause about experimentalists.

This sentence now begins: "When extrapolating these laboratory results or comparing to other studies, atmospheric modelers and experimentalists should be careful about understanding the relevant OH concentrations and exposures..."

- 20 Figure S1: Please consider reversing the color scale to improve readability by being more consistent with the color scales in the main text (where darker colors were higher values).

We switched the color scale.