

Interactive comment on “Aerosol composition and variability in the Baltimore–Washington, DC region” by A. J. Beyersdorf et al.

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Received and published: 16 November 2015

We thank the reviewer for their comments and suggestions that have improved the manuscript. Responses to their comments are in bold below.

1) Echoing one of the other reviewer comments, the title could be improved to better reflect the actual nature of the paper.

The title has been changed to ‘The impacts of aerosol loading, composition and water uptake on aerosol extinction variability in the Baltimore-Washington, D.C. region’

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2) Pg. 23319, line 1: specify what is meant by ‘aerosol loading’ (mass loading, aerosol extinction. . .)

done, dry extinction

3) Pg. 23324, line 6-7: it is quite common, but provide basic details of ion chromatographic analysis

done

4) Pg. 23326, line 21: refer here to Equation 5

done

5) Pg. 23327, line 13-16: Delete ‘To a first approximation’ and replace ‘showing’ with ‘suggesting’

done

6) Pg. 23331, line 18-19: I don’t see this information conveyed in Fig. 11?

This refers to the highest orange marker seen in the right panel of Fig. 11. Text has been added to this sentence to clarify

7) Pg. 23319, line 2: “. . .for 88

We are not sure what is referred to here. Please clarify if needed.

8) Pg. 23325, line 29: should be ammonium to sulfate molar ratio

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done

9) Pg. 23333, line 7: Brock et al., 2015 does not appear as a reference

added

Interactive comment on Atmos. Chem. Phys. Discuss., 15, 23317, 2015.

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