

Response to Referee Dr. Sandra Mogo:

We would like to thank Dr. Mogo for her thoughtful comments on how to improve our paper.

Dr. Mogo's original comments are in italics and our responses are followed in-line.

*pag.2555, line 13: "R/V" - research vessel?*

Research vessel (R/V) is now defined on page 2555, line 13.

*pag.2559, last paragraph: DMPS and APS, please include what these stand for, Differential Mobility Particle Sizer and Aerodynamic Particle Sizer;*

These acronyms are now defined on page 2559, lines 26-27.

*Fig.1, caption: "derivitive" should be "derivative";*

This has been corrected.

*Fig.2, Fig.6, Fig.7 and Fig.8: The SDA+ data symbols override the measured data symbols. You can bring the measured symbols to the foreground and use stronger colors;*

The suggested changes have been made.

*Fig.2, Fig.6, Fig.8: absorption values are so small that the extinction and the scattering data are almost identical. As a consequence, fig.2a looks almost the same as fig.2b and fig.2c and fig.2d are also identical. The same happens with figures 7a,b,c,d and 8a,b,c,d. Maybe the scattering figures can be presented as supplementary material and also the respective absorption values. It is true that the absorption data is to be interpreted in a different way but it can also be presented as supplementary material.*

The suggested changes have been made.