

Dear Dr. Eleanor Browne,

We sincerely thank you very much for your comments and time. We have revised the manuscript accordingly. The corresponding modification in the revised manuscript is highlighted **in red**.

Sincerely yours,

On behalf of the authors,

Yunjiang Zhang and Olivier Favez

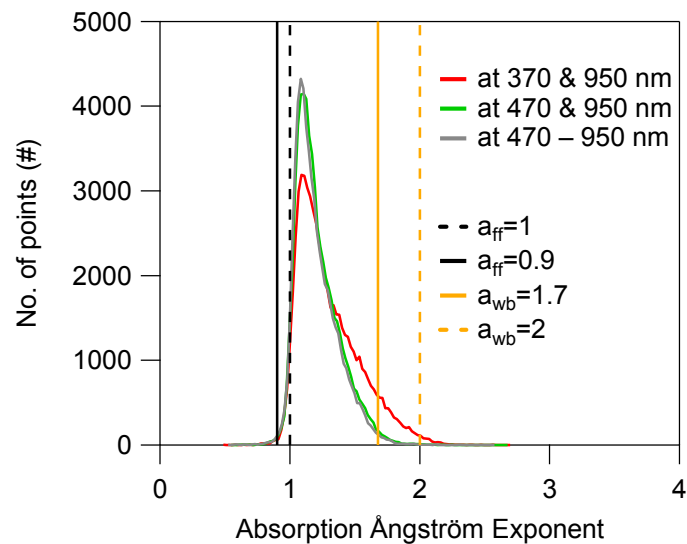
Line 90: Add "being" after "based on"

Added.

Line 173: Please state (as is done in the response to referees) that 0.9 and 1.7 were estimated by the AAE distribution observed in the study.

It has been addressed in the revised manuscript as follows:

“For these calculations, absorption Angström exponent (AAE) values - in the wavelength range 470-950 nm - of 0.9 and 1.7 for  $eBC_{ff}$  and  $eBC_{wb}$ , respectively, were estimated by the AAE distributions observed in this study (see Figure S2).”



**Figure S2.** Frequency distributions of ambient absorption Angström exponent (AAE) values calculated at different paired-wavelengths (i.e., 370 and 950 nm, as well as 470 and 950 nm) and for the 6 wavelengths comprised between 470 and 950 nm.

Line 418: This should be Figure S13 not S12

Thanks for the correction. It has been revised.