

Technical corrections:

Co-Editor Decision: Publish subject to technical corrections (30 Aug 2018) by Sergey A. Nizkorodov

Comments to the Author:

Please address the remaining minor points raised by the reviewer (reproduced below).

"The resubmission of this manuscript is much improved and it should be published in ACP after a few minor technical corrections as follows:

1. P3L9 The authors still argue that "the absorption coefficient is directly proportional to the imaginary part of the refractive index." While this is true for bulk material and for very small particles, it is not true in general, see Moosmuller et al., 2011.
2. A couple of the references that I suggested: P31L15: "Chylek" should read "Chýlek", p.33L17: "Mossmüller" should read "Moosmüller".

References:

Moosmuller, H., R. K. Chakrabarty, K. M. Ehlers, and W. P. Arnott. 2011. "Absorption Ångström Coefficient, Brown Carbon, and Aerosols: Basic Concepts, Bulk Matter, and Spherical Particles." *Atmospheric Chemistry and Physics* 11:1217-1225."

Reply to 1.: This was already changed in the revised version to: "Brown Carbon is referring to the light-absorbing fraction of the organic carbon that has a wavelength dependent imaginary part of the refractive index, which increases towards shorter wavelengths."

Reply to 2.: We changed the spelling to Chýlek and corrected the typo in the reference of Moosmüller et al. (2018) and also added the suggested reference of Mossmüller et al. (2011) before eq. (4).