Corrigendum

Atmospheric Aerosols Properties and Climatic Impacts by Olivier Boucher Published by Springer in 2015

Chapter 3, page 37

Equation (3.17) in the last paragraph of Section 3.6.1 is missing a number of / signs. The correct paragraph should read as follows:

The scattering and absorption cross sections can be normalised by the particle volume v (or particle mass m) to obtain the scattering and absorption volume (or mass) efficiencies¹:

$$\begin{cases} \alpha_v^{\rm sca} = s^{\rm sca}/v \\ \alpha_v^{\rm abs} = s^{\rm abs}/v \\ \alpha_m^{\rm sca} = s^{\rm sca}/m = \alpha_v^{\rm sca}/\varrho \\ \alpha_m^{\rm abs} = s^{\rm abs}/m = \alpha_v^{\rm abs}/\varrho \end{cases}$$

$$(0.1)$$

where ϱ is the particle density. The volume scattering, absorption and extinction efficiencies are often reported in m² cm⁻³ while the mass scattering, absorption, and extinction efficiencies are usually measured in m² g⁻¹.

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Equation (3.20) is incorrect as it stands. The corrected equation is:

$$g = \frac{1}{2} \int_{-1}^{1} P(\mu) \ \mu \ d\mu.$$
 (0.2)

 $^{^{1}}$ These quantities are sometimes called volume (or mass) scattering and absorption cross sections.