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Corrigendum to "Study of a temperature gradient metamorphism of snow from 3-D images: time evolution of microstructures, physical properties and their associated anisotropy" published in The Cryosphere, 8, 2255–2274, 2014

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In this article, Sect. 2.6.1, "Self-consistent estimates: effective thermal conductivity and air tortuosity", contained typos in two equations that contribute to the definition of the self-consistent model. Please find below the corrected version.

First, on page 2262, the definition of γ, used in Eqs. (27) and (28), is not correct. In the published paper, we state,"where γ is linked to the aspect ratio of the ellipsoid and anisotropy ratio of $\mathbf{k}^{sc}$ by $\gamma = (a/b) \times \left(k^{sc}_{xy}/k^{sc}_{z}\right)$".

The correct definition is $\gamma = (a/b) \times \sqrt{\left(k^{sc}_{z}/k^{sc}_{xy}\right)}$.

Second, on page 2262, there is a typo in Eq. (32), which defined partly the vertical and horizontal components of the effective thermal conductivity tensor. In the published paper, we state

$$\triangle_z = (k_a(\phi - (1-2Q)) + k_i((1-\phi) - (1-2Q)))^2 - 4(1-2Q) - 1(1-2Q)k_i k_a. \quad (32)$$

The correct version of Eq. (32) is

$$\triangle_z = (k_a(\phi - (1-2Q)) + k_i((1-\phi) - (1-2Q)))^2 - 4((1-2Q) - 1)(1-2Q)k_i k_a. \quad (32)$$

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