

Corrigendum to

“Technical Note: An implementation of the dry removal processes DRY DEPosition and SEDImentation in the Modular Earth Submodel System (MESSy)” published in Atmos. Chem. Phys., 6, 4617–4632, 2006

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Some typos in the equations in Appendix B have been discovered, whereas the code of the DRYDEP submodel was always correct:

- The calculation of the Schmidt number Sc in Eq. (B9)

$$Sc = \frac{\nu}{D_c} = 0.15 \times \left(\frac{k_B T_s f_{cun}}{3 \pi \eta_d \alpha r_p^\beta} \right)^{-1} \quad (\text{B9})$$

is only correct if the Boltzmann constant k_B is in cgs-units, i.e., ($1.38 \times 10^{-16} \text{ cm}^2 / (\text{s}^2 \text{ K})$).

- In Eq. (B13) the exponent of the Schmidt number must be negative:

$$v_{b,slsn} = \frac{100 \times u_{*,slsn}^2}{\kappa |v_h|} Sc^{-\frac{2}{3}} \quad (\text{B13})$$

- Equations (B15) and (B20) must be corrected, too:

$$St_{slsn} = f_{\text{relax}} \frac{10^4 \times u_{*,slsn}^2}{\nu} \quad (\text{B15})$$

$$St_{wat} = f_{\text{relax}} \frac{10^4 \times u_{*,wat}^2}{\nu} \quad (\text{B20})$$

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