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## *Corrigendum to* "Modelling chemical advection during magma ascent" published in Geosci. Model Dev., 17, 6105–6122, 2024

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An error in the submitted manuscript is present in the published version of this article in the last equation defining the smoothness indicator  $\beta_2$  for the WENO-5 algorithm in Sect. 3.2.1. The correct equation is (without 3 in front of  $C_{i+2}$  in the second term)

$$\beta_2 = \frac{13}{12}(C_i - 2C_{i+1} + C_{i+2})^2 + \frac{1}{4}(3C_i - 4C_{i+1} + C_{i+2})^2.$$

Furthermore, in Table 3, in the definitions of the characteristic viscous compaction length ( $L^*$ ) and the characteristic fluid flux ( $q_f^*$ ), the variable  $\mu_{f0}$  should be replaced by  $\mu_f$ , the melt viscosity.