Supplementary Text S5 Model calibration function

Calibration function for the VGT model

$$minLS(\alpha,\beta) = a \cdot \left[(M_{0,obs} - M_{0,sim}) / M_{0,sim} \right]^2 + \beta \cdot \left[(M_{1,obs} - M_{1,sim}) / M_{1,sim} \right]^2$$

$$\begin{cases} \alpha = K_{\alpha} \cdot \alpha_{ref} \\ \beta = K_{\beta} \cdot \beta_{ref} \end{cases}$$
(1)

Calibration function for the HGT model

$$minLS(\mu, d) = a \cdot \left[A_{0,obs}(6) - A_{0,sim}(6) \right]^{2} + \beta \cdot \left[A_{1,obs}(6) - A_{1,sim}(6) \right]^{2}$$

$$\begin{cases} \mu = K_{\mu} \cdot \mu_{ref} \\ d = K_{d} \cdot d_{ref} \end{cases}$$
(2)