

Erratum

ERRATUM: LA-MC-ICP-MS U-Pb dating of low-U garnets reveals multiple episodes of skarn formation in the volcanic-hosted iron mineralization system, Awulale belt, Central Asia

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The wrong equation “ $f = X_{RC}/X_{RM} \approx (\text{True Age})_{TC-13}/(\text{Measured Age})_{TC-13}$ ” has appeared twice and should be corrected to “ $f = X_{RC}/X_{RM} \approx (\text{Measured Age})_{TC-13}/(\text{True Age})_{TC-13}$ ” in the following two locations:

1. p. 1037, Figure 5 caption is correct as:

Figure 5. (A) Pb-Pb isochron plot of the Taochong garnet (TC-13). (B) Procedure for normalization of sample $^{238}\text{U}/^{206}\text{Pb}$ using the measured array of TC-13 garnet as the primary reference material. Notes: The x intercepts of these arrays were calculated using Isoplot v. 3.75 (Ludwig, 2012) as X_{RM} and X_{UM} , referring to the measured x intercepts of the TC-13 reference material and unknown, respectively. A line anchored to the initial common Pb projected through the correct age for the TC-13 garnet gives an x intercept of X_{RC} . X_{UC} refers to the corrected x intercept of the unknown. Linear correction factor: $f = X_{RC}/X_{RM} \approx (\text{Measured Age})_{TC-13}/(\text{True Age})_{TC-13}$, where $X_{UC} = X_{UM} \times f$. MSWD—mean square of weighted deviates.

2. p. 1041, left column is correct as:

On the Tera-Wasserburg plots, U-Pb isotopic compositions of TC-13 form a mixing array between initial and radiogenic Pb (Fig. 7). The common Pb proportion of TC-13 is only ~3% on average, up to 6% of total Pb. Following the approach suggested by Chew et al. (2014) and Roberts et al. (2017), U-Pb normalization can be achieved using the Taochong garnet (TC-13) as the reference material. A linear correction factor was calculated with the measured Tera-Wasserburg intercept age and the true age of TC-13 (line correction factor: $f = X_{RC}/X_{RM} \approx [\text{Measured Age}]_{TC-13}/[\text{True Age}]_{TC-13}$; the specific method is shown in detail in Figure 5B and its notes). The same correction factor was then applied to correcting $^{238}\text{U}/^{206}\text{Pb}$ ratios of other garnets in the same analytical session to obtain their ages. We tested the robustness of using TC-13 as a reference material by analyzing Qichun and Dongping garnets with independently known ages in four separate sessions...