

Erratum to: Decoding low-temperature thermochronology signals in mountain belts: modelling the role of rift thermal imprint into continental collision

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Erratum de : Décrypter les signaux de thermochronologie basse température dans les chaînes de montagnes : modéliser le rôle de l'héritage thermique des marges dans la collision continentale

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Figures 4B and 4C in the original publication of this article (published September 1st, 2021) are incorrect, not corresponding to their figure caption, and the insert caption that explains the color scheme in Figure 3C is missing. In particular, the originally correct Figures 4B and 4C were inadvertently replaced by the authors with Figures 3B and 3C during the revision process.

In Figure 4B, graphs showing predicted chlorine content-dependent apatite and annealing model-dependent zircon mean track length data (MTL) plotted against model ages are wrong and appear as a duplicate of graphs showing predicted chlorine content-dependent apatite and annealing model-dependent zircon mean track length data (MTL) plotted against model ages in Figure 3B.

In Figure 4C, graphs showing individual particles' model time-temperature paths extracted from Model B (model of non-inverted, thermally-relaxed rifted margins) are wrong and appear as a duplicate of graphs showing individual particles' model time-temperature paths extracted from Model A (model of inverted rifted margins) in Figure 3C.

As this Erratum is only a matter of results display, the corrected figures provided below do not affect the results nor discussion and conclusion in the published original article.

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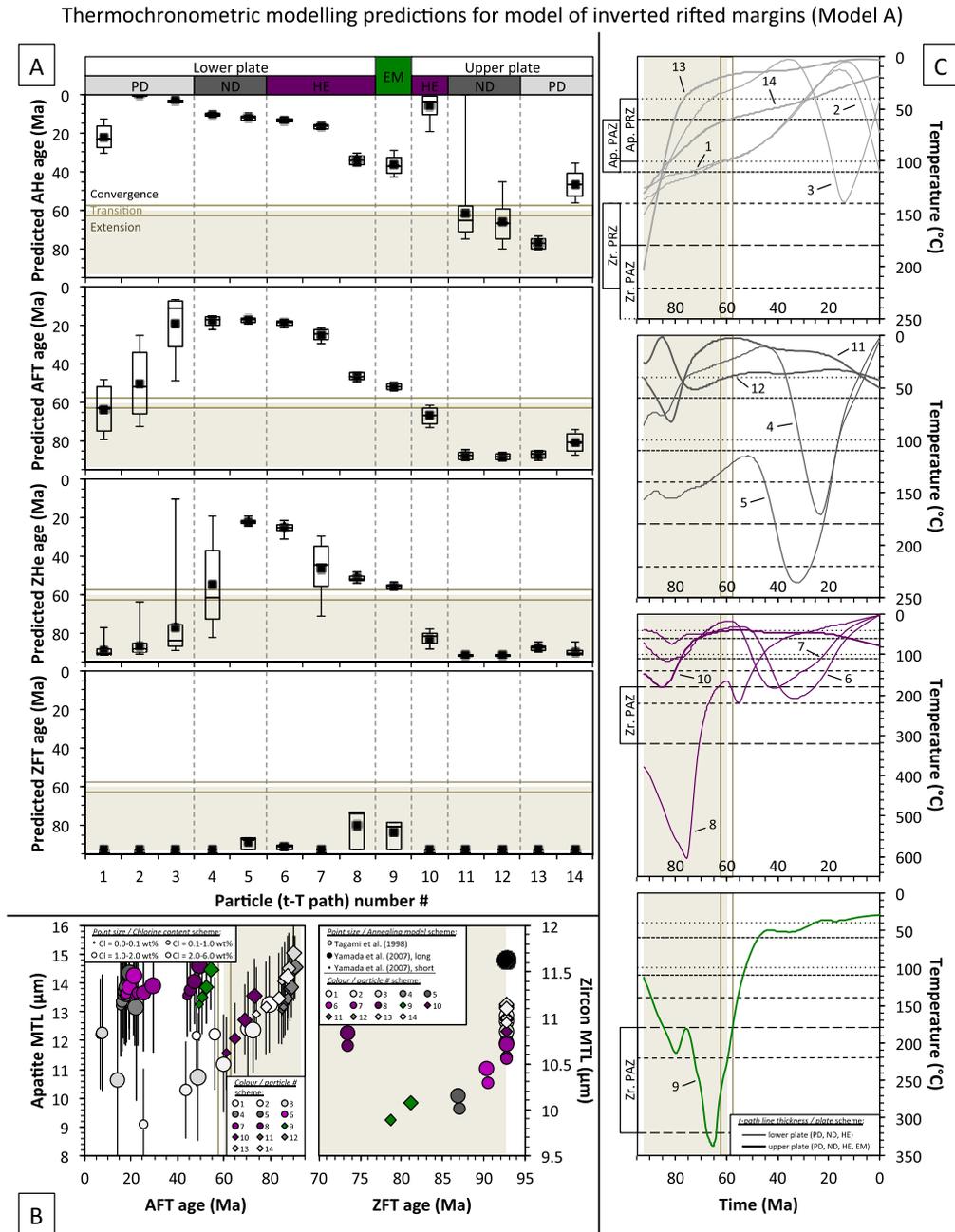


Fig. 3. Thermochronometric modelling predictions for model of inverted rifted margins (Model A; Fig. 1A). (A) Model thermochronological ages for the four low-temperature thermochronometers considered in this study. Low-temperature thermochronometers are apatite (U-Th)/He (AHe), apatite fission-track (AFT), zircon (U-Th)/He (ZHe) and zircon fission-track (ZFT) systems. Age predictions are plotted as boxplots against particle number and solid black squares represent model mean ages. PD: proximal domain, also margin; ND: necking domain; HE: hyperextended domain; EM: exhumed mantle domain. (B) Predicted chlorine content-dependent apatite and annealing model-dependent zircon mean track length data (MTL) plotted against model ages. Error bars shown for predicted MTL represent standard deviation SD calculated by the software program QTQt (Gallagher, 2012; v5.7.1) and the colour scheme corresponds to margin domains as in (A) and Figure 1. Circles represent lower plate particles 1–8 and diamonds represent upper plate particles 9–14. For a given domain, colour shade allows differentiating particles from one another (for instance, regarding hyperextended domains, light purple corresponds to particle 6 while dark purple corresponds to particle 8). For each particle, four apatite age-MTL and three zircon age-MTL are predicted, depending on apatite chlorine content range and annealing model tested. In the AFT plot, point size increases with chlorine content. In the ZFT plot, small-sized points correspond to predictions obtained using the Yamada *et al.* (2007) short-time annealing model while medium-sized points correspond to predictions obtained using the Tagami *et al.* (1998) model. Large-sized points are indistinguishable as the Yamada *et al.* (2007) long-time annealing model yields the same results. They are represented in black. (C) Individual particles' model time-temperature paths extracted from Model A (Figs. 1 and SI01). The colour scheme corresponds to margin domains as in (A) and Figure 1. Each plot represents one type of domain, irrespective of the plate (from bottom to top: exhumed mantle domain, hyperextended domains, necking domains, proximal domains) Ap.: apatite; Zr.: zircon; PAZ: fission-track partial annealing zone; PRZ: helium partial retention zone. Model data in (A) and (B) are generated for each particle through QTQt forward modelling of their individual time-temperature path in (C). Brown bars indicate the ages of extension and transition from extension to convergence in Model A (Fig. 1).

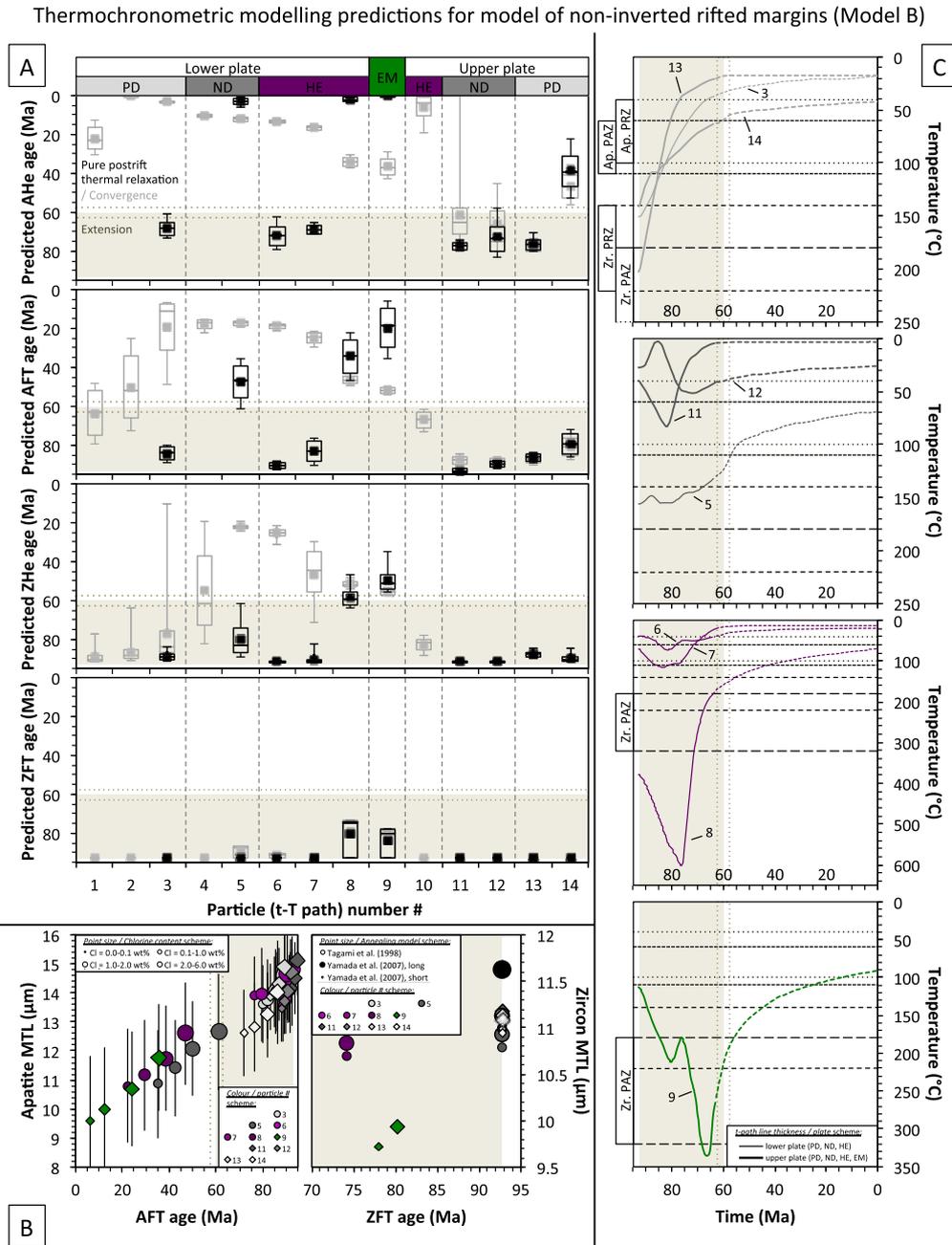


Fig. 4. Thermochronometric modelling predictions for model of non-inverted, thermally-relaxed rifted margins (Model B; Fig. 2). (A) Model thermochronological ages for the four low-temperature thermochronometers considered in this study. Age patterns predicted for Model A (Fig. 3) are plotted in grey in (A) for comparison. (B) Predicted chlorine content-dependent apatite and annealing model-dependent zircon mean track length data (MTL) plotted against model ages. (C) Individual particles' model time-temperature paths extracted from Model B (Fig. 2). Coloured dashed lines in (C) represent the portions of the particles' time-temperature paths that have changed between Model A (inversion) and Model B (no inversion, pure postrift thermal relaxation). Brown bars indicate the ages of extension in Model B. See Figure 3 for details.