

We thank the editors for their review of our manuscript and assessment that it is suitable for acceptance. Our responses to the request for a minor adjustment to the PRZ/PAZ values are shown below in blue and refer to line numbers in the revised manuscript without tracked changes. The editorial comments are shown in black.

Since the previous review comments were minor, the revised manuscript was re-evaluated solely by the handling editor. Upon review, it was confirmed that the reviewers' comments have been appropriately addressed, and the manuscript is therefore considered suitable for acceptance.

However, before proceeding, I would like to request one minor correction. This oversight was entirely on the handling editor's part, and I sincerely apologize for the inconvenience. The values of Reiners et al. (2005) referenced in Reviewer 2's major comments 1a and 1b correspond to  $T_c$ , not PRZ. The intent of the comments is twofold: first, to ensure that the authors consistently use values derived from the kinetic models actually employed in their modeling; and second, to clearly indicate the source of the PRZ values. Accordingly, the current values should be replaced with PRZ values calculated from the kinetic models used in your study, along with the appropriate corresponding references.

In light of this, could you revise L117-120 and L154 as indicated below and add one reference? This correction has also been confirmed and agreed upon by Reviewer 2. I apologize again for this oversight and greatly appreciate your assistance in making this final adjustment.

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L117-120

This path was chosen to illustrate the expected effects of rapid, monotonic cooling from a temperature that is warmer than the partial retention zone for the apatite (U/Th)/He (AHe) system (~40-80°C for Farley (2000) kinetics for heating durations of 1-10 Myrs; Ehlers et al., 2005), within the partial annealing zone of the apatite fission track (AFT) system (~60-130°C for Ketcham et al. (1999) kinetics for heating durations of 1-10 Myrs; Ehlers et al., 2005), and cooler than the partial retention zone of the zircon (U-Th)/He (ZHe) system (~130-210°C for Reiners et al. (2004) kinetics for heating durations of 1-10 Myrs; Ehlers et al., 2005).

We have made this change as requested (Lines 117-122).

L154

e.g., Ehlers et al., 2005; Reiners et al., 2005; Reiners and Brandon, 2006

We have made this change as requested (Line 156).

Reference

Ehlers, T. A., Chaudhri, T., Kumar, S., Fuller, C. W., Willett, S. D., Ketcham, R. A., Brandon, M. T., Belton, D. X., Kohn, B. P., Gleadow, A. J. W., Dunai, T. J., and Fu, F. Q.: Computational Tools for Low-Temperature Thermochronometer Interpretation, *Reviews in Mineralogy and Geochemistry*, 58, 589-622, <https://doi.org/10.2138/rmg.2005.58.22>, 2005

We have added this study to the references.

