

Response to editor: thank you very much for suggesting these final details. Below are our answers in blue.

- Define "ka" in the abstract
Done

- Decide if you use brackets or not each time you give uncertainty for the dating but do the same for each occurrence

Thanks for catching this inconsistency. We quote U-Th uncertainties using the following rule: use parentheses for multiple ages but no parentheses for a single age. For example: 234–235 (± 0.2) ka versus 234 ± 0.2 ka. Our earlier draft was not consistent with the rule. We have made these corrections.

In addition, we changed “-“ for “–“ when necessary.

- Avoid red writing on Figure 1 (difficult to read)
Corrected

- Figure 2: better use ka than years BP
Corrected

- Figure 3: increase font size of for "Precession", "Obliquity", "insolation"
Corrected