

## Answers to Topical Editor comments

*Dear Editor, we provide below the answers to your suggestions and comments, in grey italic font. We hope our answers will be satisfactory.*

**Topical Editor Decision: Publish subject to technical corrections** (12 Jul 2021) by [Andrew Wickert](#)

Comments to the Author:

Dear Dr. Colleoni and co-authors,

Thank you for your swift response and the associated changes and counterarguments. I have a few quick suggestions, but that is all.

For your abstract, I'd like to offer the following suggestion in the place of the three new sentences, in case this helps you to reach the point about your model sooner and provides the same motivating information to the reader:

Paleo-bathymetric reconstructions provide boundary conditions to numerical models of ice-sheet evolution and ocean circulation, critical to understanding their evolution through time.

If you would like, it is also quite common to then have a second sentence of the approximate form "Currently, the scientific community lacks a tool to do X (which is preventing scientific advances)." Then the third sentence can be, "In response to this need, we ..."

Or something like this!

*Thank you very much for your suggestions. We adopted them and the beginning of the abstract now looks like:*

*"Paleo-bathymetric reconstructions provide boundary conditions to numerical models of ice-sheet evolution and ocean circulation, critical to understanding their evolution through time. The geological community lacks of a complex open-source tool that allows for community implementations and can strengthen research synergies. To fill this gap, we present PALEOSTRIPv1.0..."*

The second point: I really do not like to push back against author rebuttals, but in this case I would really like to request a new color map for Fig. 9. The contour lines are thin and unlabeled, and are therefore not sufficient for me to comprehend the plots if I turn off the color. And I do see this as an accessibility issue for our colleagues with disabilities. I am sorry that this will take you extra work -- I am sure that you are quite ready to see this paper be published!

<https://www.nature.com/articles/s41467-020-19160-7>

*We did a major implementation in the software: we implemented in total 12 color scales, 3 color scales are typical MATLAB ones (hsv, jet, parula), 9 color scales are taken from Crameri et al., (2020) and are color-blind friendly. Implications are:*

- *we needed to modify the GUI interface (and we revised Figure 7): so we committed the new version of the code on GitHub and substituted the release on Zenodo.*

- *We modified Figures 9, 10, 11 and A1, and we added the following sentences in the captions: “Note that the color scale is color-blind friendly and is from Crameri et al. (2020). PALEOSTRIP has implemented 12 different color scales, 9 out of 12 are color-blind friendly”.*
- *We added the following sentence in the introductory paragraph of section 2: “Note that the final version related to this study has been corrected with minors bugs and the main “Plot & Save” graphical interface has been modified to implement 12 color scales, among which, 8 color-blind friendly scales from Crameri et al., (2020). We thus invite the readers to download again the code from Github and from Zenodo.”*

**Beyond this, I think that your changes are satisfactory. I am suggesting "technical corrections" because of the minor nature of the requests, which will require no further review by me. Best wishes for the remaining steps leading to publication,**

**Andy**

*Thank you very much for your support and your suggestions.*