

Interactive comment on “Improvements in one-dimensional grounding-line parameterizations in an ice-sheet model with lateral variations” by David Pollard and Robert DeConto

Astrid Kerkweg

a.kerkweg@fz-juelich.de

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Dear authors,

in my role as Executive editor of GMD, I would like to bring to your attention our Editorial version 1.2:

<https://www.geosci-model-dev.net/12/2215/2019/>

This highlights some requirements of papers published in GMD, which is also available on the GMD website in the ‘Manuscript Types’ section: http://www.geoscientific-model-development.net/submission/manuscript_types.html

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In particular, please note that for your paper, the following requirement has not been met in the Discussions paper:

- "The main paper must give the model name and version number (or other unique identifier) in the title."
- Code must be published on a persistent public archive with a unique identifier for the exact model version described in the paper or uploaded to the supplement, unless this is impossible for reasons beyond the control of authors. All papers must include a section, at the end of the paper, entitled "Code availability". Here, either instructions for obtaining the code, or the reasons why the code is not available should be clearly stated. It is preferred for the code to be uploaded as a supplement or to be made available at a data repository with an associated DOI (digital object identifier) for the exact model version described in the paper. Alternatively, for established models, there may be an existing means of accessing the code through a particular system. In this case, there must exist a means of permanently accessing the precise model version described in the paper. In some cases, authors may prefer to put models on their own website, or to act as a point of contact for obtaining the code. Given the impermanence of websites and email addresses, this is not encouraged, and authors should consider improving the availability with a more permanent arrangement. Making code available through personal websites or via email contact to the authors is not sufficient. After the paper is accepted the model archive should be updated to include a link to the GMD paper.

Therefore, firstly, add the ice-sheet models name and version number in the title upon revision of your manuscript. Secondly, your code availability section disagrees in several ways with the GMD requirements:

- statements that the code is available from the author upon request are no longer

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tolerated in GMD. Please provide a permanent code access or the respective license issues, which prohibit a free provision of the code. In the latter case, state exactly, which requirements need to be met to get access to the code. An author email as only access point for a code is much too volatile.

- The data and the code need to be made available for the discussion phase: promises for the future are not tolerated anymore. Therefore, provide asap (in a comment) and in the revised paper version, the exact link where your data is available now.
- the official title of this section is "Code and data availability", there is no need to create a new name.

Yours, Astrid Kerkweg

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