

Interactive comment on “Revised mineral dust emissions in the atmospheric chemistry-climate model EMAC (based on MESSy 2.52)” by Klaus Klingmüller et al.

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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 1.1:

<http://www.geosci-model-dev.net/8/3487/2015/gmd-8-3487-2015.html>

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

C1

In particular, please note that for your paper, the following requirements have 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."
- "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. After the paper is accepted the model archive should be updated to include a link to the GMD paper."

Consequently, I ask you to take the following points into account:

- In the title: "based on MESSy_2.52": please identify the exact version you are describing in your article. As you updated the dust emission scheme it would be good to have a label for the dust emission scheme in the title: e.g. "The revised mineral dust emission scheme DU_Asthita (v2.0) in the atmospheric chemistry-climate model EMAC an advancement of MESSy_2.52". Additionally, please note, that this exact Code version must be permanently archived.

C2

- Code and Data availability sections: In GMD the code and data described in the article has to be made publicly available as long as no licence reasons prevent this. Therefore, please upload the data and the code to a public repository providing a DOI for the data or state explicitly, why the data / code can not be made freely available. (In your case the MESSy homepage provides a template for the code availability section in GMD. Why are you not using it?) Please also state if the update will become a part of the official MESSy code version.

Yours,

Astrid Kerkweg

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