

Interactive comment on “Errors and improvements in the use of archived meteorological data for chemical transport modeling” by Karen Yu 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

In particular, please note that for your paper, the following requirements have not been

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met in the Discussions paper:

- "The main paper must give the model name and version number (or other unique identifier) in the title."
- "If the model development relates to a single model then the model name and the version number must be included in the title of the paper. If the main intention of an article is to make a general (i.e. model independent) statement about the usefulness of a new development, but the usefulness is shown with the help of one specific model, the model name and version number must be stated in the title. The title could have a form such as, "Title outlining amazing generic advance: a case study with Model XXX (version Y)."
- "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."

Therefore please change the title of your manuscript upon the revised submission to something like "Errors and improvements in the use of archived meteorological data for

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chemical transport modeling: a case study with GEOS-5 GCM and GEOS-Chem CTM (v11_XX)

As webpages and github are no permanent archives, the executive Editors of GMD highly recommend to make the exact code version, to which the paper refers to, available via an archiving system providing a DOI (e.g. Zenodo). In this way, the code version and the paper are perfectly linked to each other.

A personal comment in the end: I really doubt the first sentence of your abstract. Look at the CCMI models (<https://doi.org/10.5194/gmd-10-639-2017>) and you can not hold your statement that "Global simulations of atmospheric chemistry are **generally** conducted with **off-line chemical transport models** (CTMs) [...]".

Yours,

Astrid Kerkweg

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