

Response to Editor Comments (C2771) of the manuscript, “**Development of a grid-independent GEOS-chem chemical transport model as an atmospheric chemistry module for Earth System Models**” by M.S. Long et al.

Jan. 9, 2015

We thank the Executive Editor for their thoughtful comments and recommendations for improving the manuscript. To the extent possible, we have addressed the concerns. Each comment (in italics) followed by our corresponding response to that comment is listed below. Unless otherwise noted, line numbers refer to those in the original, PDF version of the discussion manuscript published online.

Editor’s Comment – C2771

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

http://www.geoscientific-model-development.net/gmd_journal_white_paper.pdf

<http://www.geosci-model-dev.net/6/1233/2013/gmd-6-1233-2013.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 met in the Discussions paper – please correct this in your revised submission to GMD.

“– The paper must be accompanied by the code, or means of accessing the code, for the purpose of peer-review. If the code is normally distributed in a way which could compromise the anonymity of the referees, then the code must be made available to the editor. The referee/editor is not required to review the code in any way, but they may do so if they so wish. ”

“– All papers must include a section at the end of the paper entitled "Code availability". In this section, instructions for obtaining the code (e.g. from a supplement, or from a website) should be included; alternatively, contact information should be given where the code can be obtained on request, or the reasons why the code is not available should be clearly stated. ”

The following section and text has been added at the end of the manuscript prior to Acknowledgements:

“Code Availability. GEOS-Chem source code is freely available to the public. Source code may be downloaded by following instructions found at <http://wiki.seas.harverd.edu/geos-chem>.”

“– All papers must include a model name and version number (or other unique identifier) in the title. ”

The title has been amended to include the model version.