

## ***Interactive comment on “GENIE-M: a new and improved GENIE-1 developed in Minnesota” by K. Matsumoto et al.***

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First of all, congratulations on submitting the first paper to be published in GMDD!

My comments below are purely of a 'technical' nature, and are by no means meant to be exhaustive; I will leave it to the reviewers to comment on other aspects of the model description.

(1) At present, the Supplementary Information is not referenced at all in the main text. An appropriate point could be in page 4, line 5. Additionally, the supplementary information could be mentioned briefly in the abstract.

(2) The supplementary information appears to be at present more or less a direct download of the working model directory. Although this may be of some use to the authors

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as an archive, I expect it would be of limited use to the reader. The top-level documentation of the supplementary information should be improved, to explain to someone unfamiliar with the model what the various directories contain. It is good to see some model results included in the archive, but again these need to be accompanied with some documentation to explain exactly what they are. It would be good also to show which results were used to create which plots in the main paper.

(3) I think that 'GENIE-1'; should be omitted from the title, as this could cause confusion. What exactly constitutes GENIE-1 is not well defined, and it is unlikely that GENIE-M will now merge with the main GENIE developments. Maybe 'GENIE-M: a model of intermediate complexity including biogeochemistry, developed in Minnesota'; or something. In addition, a version number (e.g. 1.0) should be included in the title.

(4) In the abstract, GENIE-1 needs to be defined.

(5) Page 3, lines 23-27; Page 4, lines 1-5; Page 7, line 5: The relationship between GENIE-M, and CBS-goldstein, GENIE-1 etc. needs to be clarified. Reference should be made to a published model version (e.g. Ridgwell, 2007), and all the changes made to that published version clearly listed.

(6) Page 7, line 6: SVN and GENIEfy need to be defined

(7) Figure 3: Caption needs more information. It should be more or less understandable in isolation.

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