**Climate
of the Past
Discussions**

Interactive
Comment

Interactive comment on "Modeling geologically abrupt climate changes in the Miocene" *by* B. J. Haupt and D. Seidov

A. Sluijs (Editor)

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Dear Drs. Haupt and Seidov,

Your manuscript has been commented on by 6 researchers, including modelers and data specialists. Although many of them indicate that the paper and experiments are promising, all of them indicate that the manuscript needs significant revisions and I agree with them.

Particularly, the discussed time period needs to be discussed in much more detail in the introduction and discussion using the available proxy data. It would help if these data are shown in a figure. This should lead to a clear problem statement and a realistic hypothesis that requires your model experiment to test. The reviewers have

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made ample references to papers where such data can be found. In addition, several reviewers have made comments on the modeling approach, a.o., on paleogeography, magnitude of fluxes in the experiments and the degree of coupling between the various components in the model.

I hope that you will take the constructive reviews as an opportunity to significantly improve the manuscript. Please note that additional comments by interested readers may be published on the discussion forum until the end of the discussion phase. Should you choose to resubmit, which I and the reviewers encourage, please include a point-by-point reply to the individual comments in your response letter.

Sincerely,

Appy Sluijs

Editor

Interactive comment on Clim. Past Discuss., 6, 2687, 2010.