

Interactive comment on “Sensitivity of the North Atlantic climate to Greenland Ice Sheet melting during the Last Interglacial” by P. Bakker et al.

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Both reviewers acknowledge that the authors provide new insight regarding the effect of meltwater runoff from the Greenland ice sheet on the ocean circulation and climate during the Eemian. However, both authors also criticize the interpretation of the outcome of the numerical simulations as being overambitious or too bold (Referee #2) or crucially depending on the initial state of the simulation (Referee #1). They unanimously raise major concerns.

Based on these comments (but pending the authors' response to the reviewers' comments), I conclude that this work in its present form is unlikely to be acceptable as a paper in *Climate of the Past*, unless it will be revised in a major way. Thus, I strongly urge the authors to thoroughly address and reply to all comments, in particular those

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related to the claim of constraining the Greenland melting rate (comments 2 and 3 of Referee #1 and comment 1 of Referee #2). At the same time, I ask the authors to greatly improve the language and organization (note carefully the reviewers' remarks regarding the Conclusions section) of the manuscript before submitting a substantially revised version.

Interactive comment on Clim. Past Discuss., 7, 2763, 2011.

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