



# ***Interactive comment on “Ice sheet dynamics within an Earth system model: coupling and first results on ice stability and ocean circulation” by D. Barbi et al.***

**D. Barbi et al.**

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Dear referee,

thank you for your kind reply, and the many helpful suggestions. We overworked the article in its entirety, so I hope you will forgive me if I don't answer to every single suggestion in detail, but rather mention the main changes:

\* We included the missing information about ice sheet temperature initialization \* and the reference to the PDD implementation. \* We also removed most references to Antarctica, as the sheet was neither realistically simulated nor coupled. We postpone the ice shelf simulation and coupling until a later publication. \* We also rearranged the

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paragraph about impact on ocean circulation, making it an outlook on future work as it was not possible to present a detailed analysis within the time since your comment.

I hope that the new version will find your interest and acceptance. I want to apologize for the delay - we tried to change the RIMBAY version for a more adequate discussion, but as the main author is working on different project, we finally decided to concentrate on the modelling issues concerning Greenland.

Best regards,

Dirk Barbi

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Interactive comment on Geosci. Model Dev. Discuss., 6, 1, 2013.

**GMDD**

6, C1304–C1305, 2013

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