

## ***Interactive comment on “The impact of early Holocene Arctic Shelf flooding on climate in an atmosphere–ocean–sea–ice model” by M. Blaschek and H. Renssen***

**J. Giraudeau (Editor)**

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Dear authors,

Following the closing of the discussion phase of your article, you are requested to provide a final response to comments by the two referees before being allowed to submit a revised manuscript. Both referees agreed on the importance of the topic addressed by your paper. Ref #1 (L. Polyak) provided some detailed suggestions which are likely to improve substantially the clarity of the manuscript. While acknowledging L. Polyak's careful editing work, please answer all comments (beside minor issues and technical comments) made by referee #2, paying particular attention to the following

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points:

(1) Model outputs on modern spatial distribution of sea-ice, and sea-ice export should be compared with observational data.

(2) Please address the impact of the rather low resolution atmospheric model contained in LOVECLIM on the reliability of the model outputs (and implications on the modelled reduced sea-ice export through Fram Strait).

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Interactive comment on Clim. Past Discuss., 9, 4191, 2013.