

## ***Interactive comment on “Ice-sheet configuration in the CMIP5/PMIP3 Last Glacial Maximum experiments” by A. Abe-Ouchi et al.***

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We thank the reviewer #2 very much for taking time giving us the encouraging comments on the editorial changes.

We agree to the reviewer#2 that the PMIP3 ice sheet was for CMIP5/PMIP3 and that we are heading for CMIP6. We have, however, only just begun to analyze these simulations (as can be seen by the fact that there are only few papers published comparing model responses across the LGM). Moreover, the CMIP6 LGM experimental design is ought to be submitted in an independent paper in this Journal, GMD, in a special issue of CMIP6. There is still a lot of work that should be done by the science community on the CMIP5 LGM simulations using this PMIP3 ice sheet. Through the analysis of the CMIP5/PMIP3 outputs, people need to examine how the climate are influenced by the

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different ice sheets. This is why it makes particularly important to explain how the ice sheet was constructed. We add a sentence in the discussions emphasizing that there is still ongoing work to analyze the LGM CMIP5 simulations.

For the minor comments: We certainly would like to follow all points of the suggestion.

Thank you again for the comments and helping us improving the manuscript.

Ayako Abe-Ouchi

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