

## Response to Review by Editor

We would like to thank the Editor for the helpful remarks.

- GCM is rather used for General Circulation Model. Global models are now referred as Earth System Model (ESM). Could you change GCM to ESM in your manuscript?

We follow this suggestion throughout the manuscript.

- I 76-82. Could you list, for albedos and heat parameters, the value in the reference simulation and the range tested in the sensitivity experiments ? A table listing these numbers could be provided in Appendix C.

We have added such a table in Appendix C. To avoid duplication, we have removed the sentences specifying the parameter ranges at the end of Sect. 2.1.

- About ETOPO, please refer rather to ETOPO1 (1km) as there are different versions of ETOPO.

We have clarified this, except that ETOPO1 has a resolution of 1 arc-minute.