

## ***Interactive comment on “Testing the consistency between changes in simulated climate and Alpine glacier length over the past millennium” by Hugues Goosse et al.***

### **Anonymous Referee #1**

Received and published: 9 May 2018

MS No.: cp-2018-48 Title: Testing the consistency between changes in simulated climate and Alpine glacier length over the past millennium

The overall quality of the paper is good and this manuscript addresses scientific questions that is relevant and within the scope of CP and the paper presents novel concepts, ideas, tools, and data. The scientific methods and assumptions are valid and clearly outlined in the manuscript. The results are sufficient to support the interpretations and conclusions and the conclusions are valid based on the data and model results. The description of the data and model experiments is sufficiently complete and precise to allow their reproduction by other researchers. The authors give proper credit and

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references to related work and clearly indicate their own contribution.

The title, as well as the abstract, clearly reflects the contents of the paper and the abstract provides a concise and complete summary of the paper. The manuscript is well structured and the English language is apparently fluent and precise. The mathematical formula on page 4, symbols, abbreviations, and units are correctly defined and used.

Finally, I do not see that any parts of the paper, including text, formula, figures, and tables, need to be clarified, reduced, combined, or eliminated. In addition, the references seem relevant and the amount and quality of supplementary material is appropriate.

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