

Interactive comment on “Future extreme precipitation assessment in Western Norway – using a linear model approach” by G. N. Caroletti and I. Barstad

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General reply

We have read with great interest the comments provided by the anonymous reviewers and the general comment from the Editor.

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We have acknowledged the need for better language and are seeking professional help from native speakers to revise the whole paper.

We have also reworked the structure of the manuscript, with some heavy editing regarding the Abstract and Introduction, and the replacement of Section 5.2 into the method part (Section 2) as advised by Anonymous Reviewer #1.

Clear definitions of Orographic Precipitation and Extreme Events have been provided; following the suggestion of Anonymous Reviewer #1 we have performed some extreme statistics on our data and found that the best threshold for Extreme Events in our study is set at the 99.5%-ile and not the 99%-ile. Explanations for this choice have been provided in the manuscript. All results and figures have been changed accordingly.

Some statistical analyses have been included as per suggestion of Anonymous Reviewer #3, highlighting the significance of our results regarding the future increase of extreme precipitation magnitude.

Issues about validation and boundary conditions have been duly addressed, as well as all minor comments.

Replies to all specific points, including excerpts of text from the revised manuscript, are included in the individual replies to the three Anonymous Reviewers.

Last but not least, we wish to thank the Editorial Board at HESS, the Editor Jan Seibert and the three Anonymous Reviewers for their input, precious comments and advices regarding our manuscript.

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