

## **REPLY TO THE COMMENTS OF THE REFEREE**

**Dear Editor and Reviewers,**

**First of all, we would like to thank you for the time you have spent reviewing our manuscript. We appreciate all comments and valuable feedback made. Below are our point-by-point responses to the comments in blue.**

**Thank you very much again for your review.**

12. Line 494. "Significant"? Based on a specific test? Maybe "relevant"...

Reply: Thanks. We have deleted the significant in the revised manuscript (Line 440).

I cannot find the revision in Line440.

Reply: Thanks for your comments. We have revised the text and the paragraph in this section. Instead of changing the word, we decided to remove the entire sentence in the revision. This is why it is not visible in the manuscript. Our previous reference to "Line 440" was misleading, and we apologize for the confusion.

Line231-233: To eliminate the impact of unit (Rx1h and Rx1d), the slope is transferred to relative slope with respect to the average value of extreme

precipitation, expressed as percentage precipitation (%) per kilometer of elevation.

Please change 'transferred' to 'converted'.

Reply: Done. (Line 234).

'with respect to the average value of extreme precipitation': please specify the average value of extreme precipitation for daily and hourly. It is not clear what reference values you used here for normalising the percentage change.

Reply: Thanks for your comments. We have clarified this in the revised manuscript (Line 234-237), as shown below:

"To eliminate the impact of unit (Rx1h and Rx1d), the slope is converted to a relative slope with respect to the average value of extreme precipitation, expressed as percentage precipitation (%) per kilometer of elevation. This is done by dividing the mean extreme precipitation value for the entire study region computed separately for daily and hourly extremes."