

Nat. Hazards Earth Syst. Sci. Discuss., referee comment RC2
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Comment on nhess-2021-86

Aloïs Tilloy (Referee)

Referee comment on "About the return period of a catastrophe" by Mathias Raschke, Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2021-86-RC2>, 2021

Thank you for giving me a chance to review your manuscript " About the return period of a catastrophe".

I think the article tackles a very relevant problematic, the estimation of return periods of winter storms and the linkage between return periods and losses. However, the quality of the writing and the poor organisation of ideas and concept make the article relatively inaccessible. There are too many rough statements without justification and unclear sentences.

If I understood well, the article is divided into two main parts. The first part develops the concept of CRP and applies it to Strom Kyrill (2007), CRP estimates are then compared to other RP estimates. The second part analyses the risk associated to winter storms, without clear results. I have provided a number of general comments and some specific to different sections (see supplement).

In summary, the topic of the article deserves attention, and it is clear that the development of the method presented required skills and time from the author. However, the quality of the writing is not up to the standard for scientific publication. The results are poorly communicated (in text and in figures). Additionally, there are too many statement

without supporting evidences and many references are relatively ancient. I would suggest major revisions and an intensive work on the quality of the writing for the article to be published.

Comments are in the supplement

Please also note the supplement to this comment:

<https://nhess.copernicus.org/preprints/nhess-2021-86/nhess-2021-86-RC2-supplement.pdf>