

## ***Interactive comment on “April–August temperatures in the Czech Lands, 1499–2012, reconstructed from grape-harvest dates” by M. Možný et al.***

**M. Možný et al.**

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We would like to thank Anonymous Referee 1 for very valuable comments contributing to the improvement of the paper.

The manuscript entitled “April-August temperatures in the Czech Lands, 1499-2012, reconstructed from grape harvest dates” written by Možny et al. provides an interesting set of proxy-based past temperature data for Czechia. The manuscript is in general well written and in accordance with scientific standards. Even though the idea of reconstructing temperature conditions in the past based on grape harvest dates is definitely not new (as authors write in line 5, page 2: “GHDs have been used for reconstruction of temperatures series” in many countries) the manuscript might be worth to be published

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in Climate of the Past due to (1) the innovative statistical tool of variance scaling used to optimize capturing extreme temperatures (2) the remarkable fact that there are no temporal gaps in the time series. RE: Thanks for the positive evaluation of our paper.

Prior to publication authors should address the following issues: (1) Please, carefully double-check the reference list. I flew superficially over the reference list and detected several mistakes and especially inconsistencies in the reference styles. I highlighted them in the pdf version attached (no claim of completeness). RE: References were checked and corrected in agreement with instructions for references in Climate of the Past.

(2) I am not always convinced by the structure of the manuscript. E.g. lines 30-33, page 6; lines 1-2; page 7 and lines 8-18, page 8 are not presenting the results but discussing them. I suggest shifting those paragraphs to the Discussion section. RE: Accepted, these paragraphs were moved to Discussion.

(3) In the Discussion section the link to the results of the present work is partly missing. RE: Accepted, key results and benefits were highlighted in Discussion as follows: “The Czech April–August temperature reconstruction was based on a series of continuous GHDs for 1499–2012 and using the innovative statistical tool of variance scaling to optimize capturing extreme temperatures. This reconstruction indicates more readily extremely warm years than cold ones; the percentage of warm extremes confirmed from GHDs (61%) is significantly higher compared to cold extremes (39%).”

Specific comments are to be found in the pdf file attached. RE: All specific comments to the article were included based on pdf file attached.

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