

***Interactive comment on “A universal error source in past climate estimates derived from tree rings” by Juhani Rinne et al.***

**Juhani Rinne et al.**

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Thank you for commenting a central point in our paper.

The error source is present in every analysis at least in the beginning of the data period. In our case that can be seen in Fig. 3c, where the degrees of freedom are low during 500-800 AD though the number of measurements increase. When applying the reconstruction of Esper et al. (2012) in our work, the leading years (centuries) were excluded.

Following your comment, the title will, however, be changed as follows. "A widespread error source in climate estimates derived from tree rings"

References Esper, J., Büntgen, U., Timonen, M., and Frank, D.C.: Variability and ex-

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tremes of Northern Scandinavian summer temperatures over the past millennia, Glob Planet Change, 88-89, 1-9, 2012.

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