

## ***Interactive comment on “How different sources of climate databases influence assessment of growth response in dendroclimatic analyses – case study from Lapland” by R. Sitko et al.***

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The article tests relevance of different sources of climate data for dendroecological studies. The authors used core samples taken at one locality in Lapland. They correlated detrended tree-ring widths with inter-annual climate dynamics during the last century. They aimed to evaluate biases caused by using different sources of climate data and how growth-climate of tree species change when using different climate databases.

Generally the article is well written and worth publishing, but the methodology could be made clearer. For example, it is not clear which points of the CRU database were used: whether either only the nearest one or an interpolation between several nearest points

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was used. In the interpretations the authors should keep in mind that they do not have climate data from exactly the same point as the core data. This might cause that the nearest CRU point or an interpolation between several nearest CRU points might be better than the nearest real station(s).

Overall the article is sound and I would encourage the editors to accept it for publication.

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