

Interactive comment on “Is blue intensity ready to replace maximum latewood density as a strong temperature proxy? A tree-ring case study on Scots pine from northern Sweden” by J. A. Björklund et al.

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We sincerely thank Danny McCarrol for commenting on the manuscript. We do agree that the suggestions will help to clarify the perhaps a bit over-complicated manuscript, and we hope that we have addressed/answered all the expressed concerns. We think that the comments have greatly improved and hopefully made the message in the revised manuscript clearer. The manuscript is now revised to better reflect these ideas, and the title is changed to "Introducing Δ MXD and Δ BI, a dendroclimatological case-study in Northern Fennoscandia". However we still believe that the BI measurement

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needs further work before it can be used as a climate proxy, but this question is however put aside in this manuscript to focus on the Delta-parameter. Furthermore, we argue that the BI parameter is not required to completely be independent of MXD, it can be used as a bulk complement, to enhance replication which is terribly important. Or it can be calibrated in some other way, excluding X-ray density.

Sincerely Björklund et al.

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