

Geochronology Discuss., author comment AC1  
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## Reply on RC1

Stella Birlo et al.

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Author comment on "Bayesian age–depth modelling applied to varve and radiometric dating to optimize the transfer of an existing high-resolution chronology to a new composite sediment profile from Holzmaar (West Eifel Volcanic Field, Germany)" by Stella Birlo et al., Geochronology Discuss., <https://doi.org/10.5194/gchron-2022-22-AC1>, 2022

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Dear anonymous reviewer #1,

thank you for the very constructive suggestions and thoughts. We agree with most of your points and will upload the detailed letter of response with point by point answers as soon as possible. However, we do not see an improvement in precision and accuracy of all presented Bayesian models in comparison to the previous varve chronology, especially for the youngest and oldest parts of the profile. Therefore, we think that a discussion of all presented methods and model results is helpful for future studies facing comparable problems.

Thank you again, Stella Birlo