Interactive comment on “GeoChronR – an R package to model, analyze and visualize age-uncertain paleoscientific data” by Nicholas P. McKay et al.

Anonymous Referee #2

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This ms is clearly written and makes a convincing case for standardizing paleo data for subsequent compilation studies. It shows a range of very helpful developments in compiling and compiling multiple records, enabling much more informed analyses than currently available. It is high time for the paleo-community to stop neglecting chronological uncertainties. I hope that this initiative will be taken up and used to make more robust paleoclimatic inferences.

Pending just the addition of a few references, I suggest accepting this manuscript for publication.

On p2, please also cite some earlier papers on comparisons between records

For the comparison of Hulu and GISP2, it might also be useful to cite doi:10.1002/jqs.1330 which calculates 'event probabilities' within time-windows for individual records, and then calculates probabilities for synchronous reactions between two records as the product of these probabilities for each time window.

For section 5.4, a citation to a recent compilation paper in Science might also be helpful here: doi:10.1126/science.aay5538.

Details p16 line 5, significant caption Fig. 8: the median