

Clim. Past Discuss., author comment AC3  
<https://doi.org/10.5194/cp-2021-103-AC3>, 2021  
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## Reply on RC3

Denis-Didier Rousseau et al.

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Author comment on "Abrupt climate changes and the astronomical theory: are they related?" by Denis-Didier Rousseau et al., Clim. Past Discuss.,  
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Thanks to Reviewer 3 for their latest comments, which will be included in our present revision of the initial manuscript. Reviewer 3 reports about dozens of vaguely relevant facts and factoids mentioned only once and never tied to anything else in the paper. This is precisely where we are revising the paper, by focusing our discussion on the major transitions detected using the recurrence analysis. In addition, these observed transitions will be justified through a sensitivity analysis, and tied to the other abrupt transitions detected in the two records with the new method that we have already shown is applicable to any paleorecord. Please see our response to Reviewer 2 who pointed out a similar issue, which will also be addressed in a revised version of the paper.

As for the other reviews, a longer reply in detail is being presently prepared.