

**Response to Editor and Reviewer comments:**

**For the next revision please use the initials instead of the full names of the authors for the section "Author's contribution".**

We thank the Editor for their comment and now we use the initials instead of the full names of the authors for the section "Author's contribution".

**Editor Márk Somogyvári**

Beside comments from the reviewer, I would ask for the following correction regarding your reply to RC1:

- Please consider mentioning in the conclusions the lack of direct observation data as a potential limitation of the methodology.

We thank Márk Somogyvári for his helpful comments. We now write in line 556 "Another limitation of our methodology is the lack of observation data regarding the long-term adaptation of temperate natural forests to increased frequency of extreme hot-dry compound events and therefore the lack of benchmarking of our model results with direct observations."

Additional private note (visible to authors and reviewers only):

Please check you revised manuscript, to avoid any errors introduced during the review process - as pointed out by the reviewer.

We checked the revised manuscript and corrected punctuation, language and other errors. Most of them were introduced when moving the Figures of the biomass map to the Appendix (now Appendix B, Fig. B1) without changing the references to that Figure in the last round of reviews.

**Suggestions for revision or reasons for rejection, Reviewer 2**

The authors have made a convincing effort to acknowledge model limitations and clarify the interpretation of results.

Please carefully revise the final text, as there might be some unintended mistakes. I point out three that I detected

Caption Fig. 2: "The color values of the other points range from yellow to red illustrating the increasing frequency of extreme drought years." is no longer valid, since you changed the color scale.

L447 (track changes doc): "... in scenarios C and D"

L534: Fig. 5c

We thank reviewer 2 for his helpful comments. We have corrected the mistakes that he pointed out. We removed the sentence "The color values of the other points range from yellow to red illustrating the increasing frequency of extreme drought years." from the caption of Fig. 2. Instead of "... in scenarios D and G" we now write "... in Scenarios C and D" and instead of "Fig. 5c" now we write "Fig. 5e".