

Revision Summary

We thank the reviewers again for the useful comments. We will briefly summarize the changes we made to the manuscript and then answer a specific comment that we did not implement in the revision. All other comments were implemented as suggested by the reviewers.

- We reordered the manuscript to adhere to the structure of TC
- We retrained the model and managed to get a better overall performance of the model for warmer climates by oversampling the end of the century during the training (described in the manuscript). This reduces the error metric (CRPS) on the MAR test set by 15%.
- We corrected an error in the reference period of the QDM calculation of the NorESM fields
- We deleted the previous Fig. 1 as recommended by referee 2
- We run and discuss a new experiment; CESM2-WACCM downscaling until the year 2300.
- We extended the results sections
- We extended and reordered the discussion section
- We added a new figure in the main text (Fig. 6) and several new figures in the appendix

Specific comments:

Figure 5 and Figure B.2 – Instead of time index, could the simulation “date” be given on the x-axis?

The MAR test set is not strictly ordered in time but randomly drawn months from the overall dataset. Therefore, putting “date” on the x-axis is not really possible.