

Thank you for your comments and corrections. Below follows a point-by-point reply (in red) to the comments.

Re: section 2.3.1 ("Comparison of climate gradient profiles"): Your reasoning is sound, but the text is still confusing.

- "local climate forcing" in the added text confuses more than it helps. Consider replacing that sentence with just: "We split the dataset this way—OBS by observed climate and MIMICS+ and CLM by model forcing climate—because we are investigating sensitivities to temperature and precipitation. (Fig. S1 shows results of this analysis with all points classified according to their OBS climate.)"

We agree that your sentence is clearer. The sentence have been changed to your suggestion.

- Mention Fig. S1 again in Sect. 3.3

The first sentence in Sect. 3.3 now reads "In Fig. 6 the 50 sites have been divided into two subsets of 25 sites based on climate categories described in Sect. 2.3.1. (Fig. S1 shows the result of the division of sites based only on the on the observed climate.)"

- L269 in revised manuscript (not tracked-changes): "sited" should be "sites"

The typo is corrected.

An additional typo in L267 was also corrected.

In tracked-changes version:

- L117: "moves" should be "move"
- L118: "represent" should be "represents"
- L230: "with" should be "by"
- L417: "was" should be "were"

The words listed above have been corrected.

- L425-6: This could also be due to inaccuracies in the model climate forcings.

Good point. To address this, the sentence is changed to "However, both models showed poor one-to-one agreement with the observations (Fig. 2d-f), possibly due to local heterogeneity that is not captured by the models and/or inaccuracies in the model climate forcings."

Figures:

- Fig. 1: Font size in labels at top of figure needs to be larger (comparable to figure caption size).

The figure is updated with larger font size for the text on top of the figure.

- Fig. 2: Including a 1:1 line for subplots d-f would be helpful.

1:1 lines are added to the subplots, with an explanation in the figure caption.

- Figs. 3, 6, 7, A1, B1, B4: Figure label font sizes need to be larger.

Font sizes are increased. For B1, the total figure size is also increased.