

Replies to Referees' comments on "Drawing lessons for multi-model ensemble design from emulator experiments: application to future sea level contribution of the Greenland ice sheet" (egusphere-2025-52)

Horst Machguth

We thank Prof. Machguth for this additional check.

Throughout the entire document: Please explain abbreviations, or refer to Appendix E (the text has no reference to Appendix E) as early as possible, thereby making clear that all abbreviations/acronyms are explained therein. Currently some abbreviations are explained in the text (e.g. MME on line 5), others not (GSAT on line 122 - note that GSAT is then explained a bit later in the caption of Fig. 3).

We have specified in line 120 that "All abbreviations used in the text are explained in Appendix E".

There should always be a space between numerical value and unit symbol (except for °, ' and "). Currently this is handled inconsistently in the manuscript.

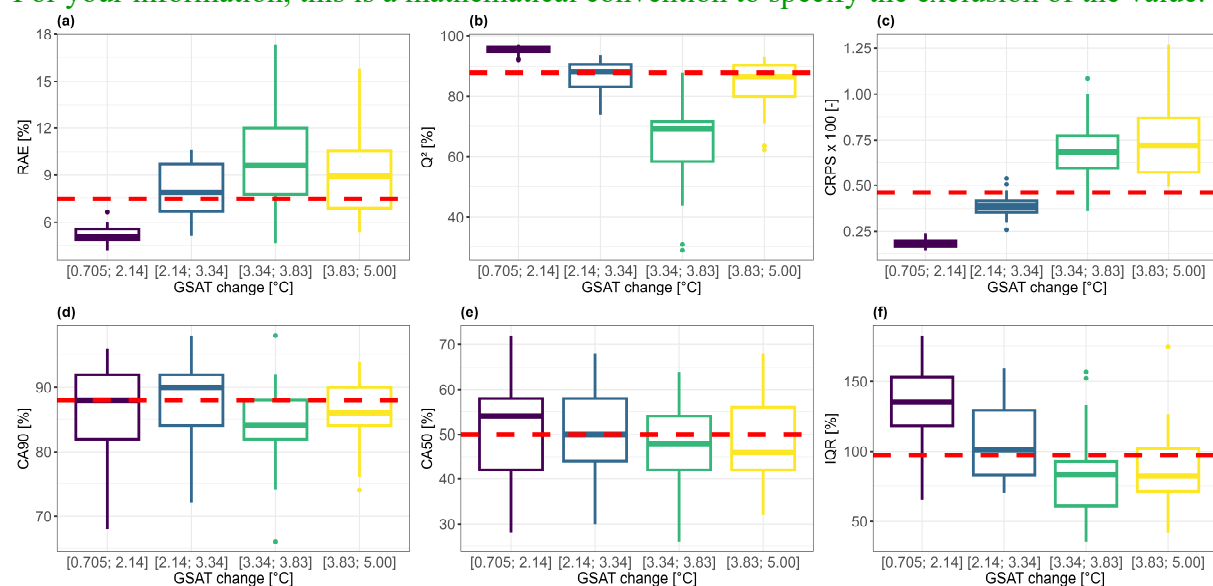
We have corrected the notations.

line 267: this should be an active citation, "... as in Edwards et al. (2021) ..."

This has been corrected.

Figure 5: Consider labeling the x-axis on the plot and also indicate the unit. One label would be enough for all subplots as all x-axes are identical. I might not be familiar with certain terminologies and use of symbols: is there a reason behind combining round and square brackets in all GSAT ranges on the x-axis? Elsewhere in the text ranges of values are indicated using square brackets.

We have modified the figure as suggested. We have also removed the use of parenthesis "(". For your information, this is a mathematical convention to specify the exclusion of the value.



Line 303: I might simply not understand the details, but aren't the small GSAT changes below 2.14 °C shown in black in Figure 5?

We have checked, and we confirm that it is in dark blue; please refer to https://rpubs.com/mjvoss/psc_viridis for any information on the colours used.

Line 348: tiny detail, but RCM already abbreviates the word "model"

This has been corrected.

Orleans,
November 14th, 2025
J. Rohmer¹ on behalf of the co-authors

¹ BRGM, 3 av. C. Guillemin - 45060 Orléans Cedex 2 – France