

Dear Editor,

You will find a revised version dealing with the useful and constructive remarks from both reviewers. The main changes are:

- a more detailed description of CNRM-ESM2 and its climate sensitivity in Section 2.1
- a more in depth comparison of MAR forced by CNRM-ESM2 vs MAR forced by ERA5 over 1981-2010 in Section 2.1 by notably including new figures and tables in supplementary.
- a better and more detailed description of the different solar (G6solar vs G6suflur) scenarios discussing their feasibility and their comparison in the new Section 2.2. This Section describes also the MAR sensitivity experiments used in this paper and a new table is provided in supplementary summarising the sensitivity experiments.

Finally, the individual responses to the reviewers comments are available in the Discussion of the paper.

Thanks for considering this revised version.

Best regards,

Xavier, on the behalf of all the co-authors