

Review of the article:

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A climate suitability index for species distribution modelling applied to terrestrial arthropods in the Mediterranean Region

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The authors have adequately addressed the comments made during the first round of peer review, and the manuscript has been substantially improved, so I would recommend that it be accepted after some minor corrections, mostly related to the ensemble mean and the use of the EURO-CORDEX hindcast simulations, which I think is important to clarify for other studies.

Minor comments:

The author claimed that the ensemble was constructed only from simulations that provided the parameters necessary to construct the indices described in Table 2. However, to my knowledge, the EURO-CORDEX data are consistent in the variables they provide and their spatial resolution (0.11°), which means that all simulations participating in the hindcast experiment provide all the variables listed here: http://is-enes-data.github.io/CORDEX_variables_requirement_table.pdf from which the authors could calculate the indices. Also with a quick search on the Earth System Grid Federation <https://esgf-metagrid.cloud.dkrz.de/search> I could not find the RegCM4-6 data. I think it's very important to clarify what criterion was used for a model to be included as a member in the ensemble. Finally, I don't understand why there were two models, the CNRM-ALADIN63 and the ICTP-RegCM4-6, that needed interpolation, since all EURO-CORDEX hindcast data are provided at the same spatial resolution as mentioned above. It seems that the later models are not driven by ERA-interim, but by general circulation models, and if this is the case, then the ensemble model should be rebuilt using only hindcast simulations.

#1: line 159: "The observations are the 30-year (1980-2010)" Please change to 31-year everywhere in the text.