

This major revised article takes into account the majority of my remarks. I think that the methodology is now clear and the results are always interesting and better highlighted. I suggest publishing this paper in the ESD with technical correction. The details are available below.

Major comments response

For my previous major comments, the asked clarifications are done. The methodology is given clearly and that is understandable. The difference of the model could be better used in the explication of the results but that can be considered as sufficient in the current version of the paper because the main focus is on the impacted population. For my major one remark (justification of the number of models) and my second remark (classification), your responses and corrections are sufficient.

For the bias correction, I read your justification and I am not completely convinced. I think that is ok for the majority of the area but in some locations, the non-use of the bias corrections is problematic. When some of the CMIP5 models do not simulate the correct precipitation in the current climate, the analyze by comparison between the future and the present cannot be correct. However, you are right that we must have several data to correct the output of the model and that is difficult to correct it. I would have preferred to have with a model a quantification of the impact of the correction for some regions (Sahel). This correction could already be made only on a limited number of inputs. However, I find your justification and openness in your discussion/conclusion sufficient for this paper. One remark, with some bias correction methods, the correlation between the outputs are conserved after the correction (cf CDFt method, Michelangeli P, Vrac M, Loukos H (2009)).

Some questions/remarks

I agree with all the changes.

2 new remarks

In your abstract, you show results (that is nice) but as you show only the urban and total impacted people that is not clear in the abstract why the number of people is smaller for the total.

Line 152: extra space after "field"