Hydrology and Earth System Sciences Discussions

Interactive comment on "Spatial and temporal variability of rainfall erosivity factor for Switzerland" *by* K. Meusburger et al.

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Reviewer 2: We agree that there is a need to bring the results within a wider context (particularly the conclusion section) taking into account other studies (thanks for the literature suggestions) . This is a crucial point that the reviewer 1 already mentioned. Thanks to the anonymous Reviewer for the detailed proof reading of the manuscript. The errors and typos will be corrected in the revised version. Reviewer 3: As reviewer1, reviewer 3 suggests a more in depth discussion of the multiple regression method and why it works better than regression-kriging. We will consider this point in the revised version by providing also the standard error maps. Moreover, the reviewer indicated that we missed to provide sufficient information on the spatial modeling in some parts.

This was mainly due to the fact that we didn't want to focus too much on a comparison of different interpolation techniques. The information will be added. We only gave a short reference to the calculation of the regimes: "The seasonal variability of rainfall erosivity is illustrated by monthly regime coefficients, which are the monthly erosivity values divided by the average yearly erosivity." We will consider adding an explanatory equation. Thanks to both reviewers!

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