

Interactive comment on "Rainfall erosivity factor in the Czech Republic and its Uncertainty" *by* M. Hanel et al.

Anonymous Referee #3

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In general, this is a well structured and well written manuscript; Results are not only applicable on a local scale (CZ), they will also provide valuable input to the scientific community; At present however, the manuscript lacks detail of information which needs to be added. More specific remarks:

1) I find it impossible to recalculate any of the results obtained due to the complete lack of parameter values for the different equations tested; I suggest to add a table with parameter values whenever possible; 2) Detailed information on input data is missing (station name, exact period of recording, details about covariate values...) in addition a table with information on R-factor characteristics (mean R-factor) of the stations is missing, this may already be included into the table of input information - please provide; I am aware that these details will need about two pages of the manuscript, however without this information, the manuscript lacks much of detail. 3) Please re-

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consider the number of digits you are using to describe results. Given the fact that you are dealing with confidence intervals in the range of \pm 10 (minimum) it does not make sense to provide R-factors with 2 digits after the decimal. See for instance page 12, line 7 or Table 1. Please reconsider throughout the whole manuscript. 4) For practical purposes (a useful application of the USLE) it will be necessary to provide at least monthly R factors, because they are needed as input into the USLE management factor. I understand that it might beyond the scope of this paper, however I would strongly suggest to provide these data in the future. 5) I am missing some information about stationarity of the data used for the study. Can you provide some information here? 6) Page 2, line 29: It is interesting to note that, while the mean R-factor values of maps based on a European dataset (Panagos et al., 2015) are quite similar to those derived in this manuscript, their range is much smaller. For the extreme case of an R factor of 152 (recorded at one site in Czech Republic) this would practically increase a soil loss according to some USLE approach for >100%. 7) Page 4, line 25: Is the gridded information data set using the same time period as the station specific data set? Please provide this information.

8) Figure 3: This Figure does not provide useful information at present – either rework for a better graphical representation or skip

9) Figure 7: only those below 600 m (dashed).....

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