

## ***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-

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 be 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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Discussion paper

