

Interactive comment on “Scale effect on runoff and soil loss control using rice straw mulch under laboratory conditions” by S. H. R. Sadeghi et al.

Anonymous Referee #3

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The paper is under the scope of Solid Earth. The structure of the paper is very poor and needs to be rearranged. The authors have to do a better job in the justification of the work, presentation of the results (in the results section). The statistical analysis has to be explained with detail. In the discussion section, do not present your results, just a resume of the main findings and discuss it with previous works. The paper needs a deep major review. Abstract Line 2: This is a very strict statement and I believe it is not true. Please write “few research..” Line 5: Delete “with rate of 0.5 kgm–2” Line 6-9: Rewrite this sentence. It is not understandable. Line 9-10: delete “more”, one “in”. Write “had significant effects” Line 12-15: Rewrite this sentence. It is not understandable.

Introduction

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Page 2: Line 20-22: Delete and start the paper with the sentence “Several natural and organic. . .” Line 26-1 (Page 3): Delete, you are not working in vegetation recuperation.

Page 3 Line 3: Change “steepness and length of slope” by “steepness, length of slope” Line 7: Substitute “a lot” by “many” and “as” by “to” Line 9: Delete “but” Line 10-16: This should not be placed here but in the end of the introduction, as the objective of the work. Line 16-17: Delete this “There are a few studies about spatial scale variations mulches on runoff and soil loss”, you already refer it before.

Page 4 Line 21: Here the authors have to do a better job in the justification of the work and the objectives.

Materials and methods

Page 5 Line 8: What do you mean with 3 replicates? That you carried out the experiment 3 times in each plot? Line 14-15: Change “A sandy-loam topsoil was collected 0–20cm (Kukul and Sarkar, 2010) the Alborz” by “A sandy-loam topsoil (0-20 cm) was collected (Kukul and Sarkar, 2010) in the Alborz..” Line 15: Change “lab” by “laboratory” Line 16: Please refer the “optimum moisture content” Line 16-17: Explain the sentence “decrease breaking down the aggregates in sieving process” Do you mean during? Line 26: substitute “almost equal to that measure” by “similar to the measured”

Page 6: Line 4: What do you mean with “Climatological condition” Line 5: Change “synoptic station” by “meteorological station” Please show the coordinates and altitude of this station. Line 11: Change “rain storms” by “rainfall experiments” Line 22: Please explain with better detail the statistical analysis and the General Linear Model used. Line 26: Please explain better the necessary prerequisites analysed to use the GLM

Results Page 7 Line 1-5: Delete, please go straight to results description. Line 7-18: Please do a better analysis of the data. Like this is just an indication to the tables and figures, for the reader is very difficult. The authors have to analyse the data and describe it correctly. Discussion Line 21: The data analysis should not be done in

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the results in the discussions is just to explain and compare the results with previous works. Please rearrange the discussions accordingly.

Page 8 Line 2-3: Instead of describe in detail the results of these authors you should do it here in order to compare your results. Line 5-15: These are results, please wrote it in the results section

Page 9 Line 1-9: Please first write a resume of the major findings of your research and then compare it with other works. Line 10-31: These are results. . .please write it in the proper place.

Page 10 Line 4-10: These are results. Please write in the proper section. And they need also discussion

Conclusions Please resume the conclusions to the main findings of your work and future research, do not repeat the results again.

Figures 2,3,4 and 5. Please resume these results in a table. Analyse other statistical parameters (e.g. Standard deviation, minimum, maximum, coefficient of variation)

Interactive comment on Solid Earth Discuss., 6, 2915, 2014.