

Interactive comment on “Soil erosion evolution and spatial correlation analysis in a typical karst geomorphology, using RUSLE with GIS” by Cheng Zeng et al.

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Dear reviewer: I am very grateful to your comments for the manuscript. According with your advice, we amended the relevant part in manuscript. Some of your questions were answered below. 1)The abstract will be described its main points which included the background (the necessity and importance in strengthen the research on soil erosion in karst region), objectives, methods, results, and conclusion. 2)The part of the introduction At the beginning, it explains the significance of the research ; Previous studies including the fact that remote sensing is used to obtain the driving mechanism; However, there is no clear understanding of soil erosion and spatial factors, it is very important to understand the characteristics of soil erosion in Karst. In this article, we

C1

try to make it clear by means of the RUSLE model and the GIS . 3)We can simplify the description of the RUSLE model, the description is divided into two main parts: a) what is the model; b)Model RUSLE calculation process 4)In the part of the results, firstly the results of soil erosion are analyzed, then the factors such as topography, lithology and rocky desertification were analyzed, Study on the relationship between soil erosion and spatial and temporal factors. Thank you for your advice I will clearly describe results from data analysis and from model simulation; 5)In the discussion section, the characteristics of soil erosion and its relationship with spatial elements (lithology, rocky desertification) are discussed in several parts, the causes of the problem are discussed in each section, and the contributions are summarized. 6)Many grammatical or topographical errors have been revised. All the lines and pages indicated above are in the revised manuscript. Thank you and all the reviewers for the kind advice. Sincerely yours, Cheng Zeng Corresponding author: Name: Xiaoyong Bai E-mail: baixiaoyong@126.com

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C2