

Interactive comment on “Land use and land cover change analysis of District Charsadda, Pakistan along Kabul River in 2010 flood: using an advance geographic information system and remote sensing techniques” by Misbah Fida et al.

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Referee #1 Comments: This study aims to examine with GIS and remote sensing techniques the land use and land cover change during the 2010 flood along the Kabul river at District Charsadda. The title is relevant and informative about the study and the reference is appropriate. In the introduction section, it's clear what is already known about the topic and the research question about land use and land cover is clearly outlined. Some abbreviations need to fully explain like GIS (Geographic Information System), RS (Remote Sensing) KPK (?). Methods are valid and reliable but need

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more theoretical background about image processing and image acquisition few or no reference is included in this section. Please cite the software you use. The results need more statistical analysis and visualization about the pre and post-flood comparison you can use also as a variable how local weather affects land usage (if the local weather is the same pre and post-flood). Please fix the figures that seem distorted. Overall a good study with the potential to be better. I also attach a pdf with some extra comments.

Reply: Dear Reviewer, Thank you so much for your positive comments, appreciation, and approval of our research work. We are gratified for the time and efforts you put into our manuscript. You review this paper systematically and in detail to remove the errors for improvement and the enhancement of the scope, readability, and a presentable manuscript. Collectively, the evaluations made it likely to improve our revised manuscript to a higher standard, and for this, we are very thankful to the team of Natural Hazards & Earth System Sciences (NHES), both editor and reviewers. We have tried our level best to incorporate all the individual points highlighted by the reviewers and revised the whole manuscript for a quality publication. The itemized replies are provided below along with the revised paper. We hope that the quality of this paper is improved and you will find our responses to your satisfaction.

We have modified our revised manuscript according to the instructions and suggestions were given by you. Now we hope that you will find the manuscript to your satisfaction. The abbreviations are fully explained now in the revised paper. References are included in the methodology section and the software used is also cited. The results section is also revised as per your suggestion and instruction. Figures are also modified. All changes highlighted in the pdf file given by you are also included in the revised paper.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2020-255>, 2020.

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