

# ***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.***

**Anonymous Referee #1**

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The aim of this study is 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 more theoretical background about image processing and image acquisition apparently few or no refer-

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ence 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.

Please also note the supplement to this comment:

<https://nhess.copernicus.org/preprints/nhess-2020-255/nhess-2020-255-RC1-supplement.pdf>

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