

## ***Interactive comment on “Modelling of the hydrological connectivity changes in the Minjiang Upstream after the Wenchuan earthquake using satellite remote sensing and DEM data” by H. Z. Zhang et al.***

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We would like to thank I. Fuller for the constructive comments that he carried on our article “Modelling of the hydrological connectivity changes in the Minjiang Upstream after the Wenchuan Earthquake using satellite remote sensing and DEM data”, which all have been considered in the final version of the manuscript.

Our connectivity model was established for monitoring the hydrological connectivity changes in the Wenchuan earthquake region. The model is based on the slope

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materials stability susceptibility, which was trained through multivariate analysis of earthquake-damaged vegetation and its controlling factors (i.e., topographic environments and material properties). However, sediment transfers, as well as the water transfers are critical here. We would add one clearly introductory chapter for the slope materials stability model in the new version of the manuscript. (We would submit one manuscript ‘Spatial Analysis of Damaged Vegetation in the Mianyuan River Basin after the Wenchuan Earthquake’, and this manuscript is focused the slope material stability model.) In additions, the final manuscript would be expanded including references to other works. And, English language would be strongly improved in the final paper.

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