

Interactive comment on “Delimitation of Flood Areas Based on Calibrated DEM and Geoprocessing: Case Study on Uruguay River, Itaqui City, Southern Brazil” by Paulo Victor N. Araújo et al.

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Comments to the Authors: [Paulo Victor. N. Araújo, Venerando E. Amaro, Robert M. Silva, Alexandre B. Lopes] We would like to thanks the authors for submitting their research finding in NHESS. Paper is as per the scope of the journal, however at preliminary review, Editorial panel has observed significant corrections, and some of them are cited here for author’s consideration to improve the quality of work. Minor corrections Pg.2, Line 26, use the superscript function to write the unit i.e. km² instead of km2. Pg. 3, Line 16, Official instead of oficial Use a common scale bar and Grid frame

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to fig 1, fig 6, fig 7, fig . 8 (a), (b) Cite all the reference as per NHESS reference citation style Major comments 1) Authors has used flood simulation model, however the description of model to prepare the flood hazard map is missing. 2) Authors have utilized SRTM DEM 1 arc data set, Although DEM of a study area has not been provided in form of figure or map. It is important to include. 3) How the SRTM DEM is used to prepare the flood hazard maps? It is important to describe. 4) What is Geoprocessing? Which geoprocessing technique has been used by authors to prepare a flood hazard maps? Explain. 5) Any rational of selections of flood hazard classes in Table 1 and Fig 6, if so, please explain. 6) Table 2, Kendall's tau statistic 0.167, what its correlation with flood hazard mapping? , it is important to explain significance of Mann Kendall test in flood mapping. It is important to correct and resubmit the revise version.

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