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Interactive comment on "Statistical model for economic damage from pluvial flood in Japan using rainfall data and socio-economic parameters" by R. Bhattarai et al.

Anonymous Referee #1

Received and published: 4 November 2015

Content: âĂć The slope calculation are bases on a km² raster, small flow lines are not detectable at this resolution but are essential for the pluvial flooding process. BetterDTMs are available, why are they not being used? âĂć The population is used for distribution of assets, but infrastructure and public buildings often effected a lot by pluvial flooding, also the economic sector. This approach does not really sufficiently describes the vulnerability. âĂć The daily precipitation rate is used, pluvial floods often last only few minutes to hours. Are there no intensity data available? At least the problem should be better addressed. âĂć Where do the population density classes come from? Are there better results reached by other classes? âĂć What types of losses

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are used for the calculations? Is a net or gross concept used? What types of damages / losses are included in the statistical data used for this study? âĂć Formula 5 and 6 need some more explanation, formula 5 also contains an error.

Formal: âĂć Prices should always be in USD. âĂć ff always different font âĂć Should be grammar and spell checked. âĂć The diagrams are sometimes hard to read: Units at Fig4a missing, quite small, especially the numbers. âĂć Also the maps are not really readable.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 3, 6075, 2015.