

Nat. Hazards Earth Syst. Sci. Discuss., author comment AC1
<https://doi.org/10.5194/nhess-2022-109-AC1>, 2022
© Author(s) 2022. This work is distributed under
the Creative Commons Attribution 4.0 License.

Reply on RC1

Kaihua Guo et al.

Author comment on "Exploring the utility of social media data for urban flood impact assessment in data scarce cities" by Kaihua Guo et al., Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2022-109-AC1>, 2022

Response: We appreciate the reviewer for the positive comments. For the flood modeling and validation part, we will present more detailed description about the input data, the model, and the setup of model parameters in section 4.1 of revised manuscript. The model we are using is the commonly used model based on Shallow Water Equations that has been well studied in past decade. The supportiveness of social media to the simulation results will be further discussed in this section as well, to explore the applicability of social media data in flood impact assessments in data-scarce cities. Please noted: as indicated in the manuscript, the main aim of the manuscript is to develop a replicable and optimized social media data processing method in order to better filter and identify valuable flood data from a large amount of ordinary unstructured public social information full of intensive unknown interventions. Therefore, the flood modelling part here is mainly for the purpose of demonstrating the utility of the gathered data.