



EGUsphere, referee comment RC1
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Comment on egusphere-2022-52

Anonymous Referee #1

Referee comment on "Intersecting near-real time fluvial and pluvial inundation estimates with sociodemographic vulnerability to quantify a household flood impact index" by Matthew Preisser et al., EGU sphere, <https://doi.org/10.5194/egusphere-2022-52-RC1>, 2022

This paper created the compound flood impact index at the parcel level by high-res data in an efficient way (with acceptable accuracy and low computation time). It is generally well written and structured. It tackled an actual problem and provided evidence on the integration of fluvial and pluvial flooding. The results provided practical information for the decision-makers to identify priority for emergency management or further planning. The methodology and data were also properly described and discussed. I would suggest accepting with minor revision.

Minor remarks:

- The sections of Introduction and Background are long-winded. For example, section 2.3 can be removed; it could be just mentioned that the hydrodynamic models are time-consuming and highly data required in the introduction. The paragraph on 'depression' in the introduction could be moved to methodology section.
- Figure 7, 8 and table 3 needs to be explained in detail in the text.
- In the discussion, it would be better to stress that how this methodology can be applied to other area and what could be the limitations.