

Review of: "Exploring the Impact of Future Land Uses on Flood Risks and Ecosystem Services, With Limited Data: Coupling a Cellular Automata Markov (CAM) Model, With Hydraulic and Spatial Valuation Models"

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Potential competing interests: No potential competing interests to declare.

Dear authors,

The manuscript on the impact of future land cover changes on flood inundation in northeast Indiana presents valuable insights, combining land, hydraulic, and economic models for analysis. However, there are several aspects that could benefit from improvement.

Firstly, the conclusion appears lengthy, and to enhance clarity, I recommend simplifying it and considering the addition of a dedicated section on limitations and future work within the discussion.

Secondly, in the 'Study Area' section, the inclusion of a location map would improve the reader's understanding. Additionally, enhancing figure legends, incorporating scale values, and using labels (a), (b), etc., for images with multiple pictures could enhance the visual presentation.

Concerning the methodology, providing more details about the Python program used, specific data sources, and characteristics would enhance the transparency and replicability of the study. Furthermore, a more detailed discussion on soil classes, conservationist practices, and other relevant factors influencing hydrological behavior in the study region would be valuable.

In the results and discussion sections, consider a more comprehensive presentation, including tables or graphs to illustrate algorithmic improvements. A thorough comparison with existing literature and a discussion on the chosen evaluation metrics would strengthen the validity of the proposed algorithm.

Lastly, the conclusion could be summarized, and some portions may be more appropriately moved to the discussion section. Additionally, addressing the limitations of the study and outlining directions for future research would enhance the manuscript's completeness.

Best,

