Interactive comment on “Coupling scenarios of urban growth and flood hazard along the Emilia-Romagna coast (Italy)” by I. Sekovski et al.

Anonymous Referee #1

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The aim of the paper named “Coupling scenarios of urban growth and flood hazard along the Emilia-Romagna coast (Italy)” is to model the urban growth of Emilia-Romagna Region coastline and to analyses the flooding risk of the coastline by considering the forcing components. The integration of urban growth and flooding risk is a highly relevant subject. The aim of the paper is well fit with the scope of the journal. However, the paper could be improved with major corrections and I hope my comments will be of benefit for this.

â€¢ First of all, the most important deficiency is lack of the accuracy assessment for the hazard maps. The prediction of the current situation should be also modelled/estimated and compared with the observed one. The hazard map is so dramatic for the year 2050 and needs to be support with accuracy assessment. â€¢ The general idea is reasonable and significant in some point of views. However the fiction and presentation of the idea is week. The method especially the hazard section should be revised from the beginning and re-organized. The connection of the urban growth model and hazard assessment should be well integrated. â€¢ A flowdiagram would be better in order to make some clarifications on the method. â€¢ The color of the prediction maps is not clear. It is better to change the color, especially the urban and the water classes. â€¢ The language of the paper is certainly needs to be checked. There are some expressions which can be expresses in a more smooth and fluent way. 24: Because of the high susceptibility of the coastal… 32: Because of structural interventions, as well as... 27: It is important to highlight that it was decided to not include in the Exclusion layer the land… 30: Since the scenarios in this work are up to 2050, only... 25: protections, such as the so called â€¢ Twinter

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