

Nat. Hazards Earth Syst. Sci. Discuss., referee comment RC2
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Comment on nhess-2021-210

Pushpa Dissanayake (Referee)

Referee comment on "The role of morphodynamics in predicting coastal flooding from storms on a dissipative microtidal beach with SLR conditions: Cartagena de Indias (Colombia)" by Jairo E. Cueto Fonseca et al., Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2021-210-RC2>, 2021

I read the m/s with great interest. Authors have investigated the extent of coastal flooding using previously calibrated two numerical models, SWAN and XBeach. Their main focus is to explore the flooding extend with and without morphodynamics in the simulations considering 5 scenarios (1 extreme event and 4 Cold front) together with sea level rise (SLR) and 3 scenarios with high tide. Approach and analyses support to derive their conclusions.

The content is interested for the NHESSE readers. However, I found, the m/s needs careful improvements from abstract to conclusions. Therefore, I recommend moderate revision as suggested below (attached pdf) before accepting for publication.

Please also note the supplement to this comment:

<https://nhess.copernicus.org/preprints/nhess-2021-210/nhess-2021-210-RC2-supplement.pdf>