

Interactive comment on “Introduction to the special issue “Venice flooding and sea level: past evolution, present issues and future projections”” by Piero Lionello et al.

Anonymous Referee #1

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This short paper represents the introduction for a special issue focused on flooding issues in Venice, in the past, present and future. The special issue comprises 3 papers which are all reviewed separately. The introduction includes a brief summary of the key findings and conclusions of the more detailed technical papers. The goal of such an introductory article is to “set the stage” for the special issue and to provide a short outlined of what the issue comprises. This paper does exactly that and I have no major comments or concerns. The only thing that the authors may want to check (and possibly revise) is the wording in lines 50-51. If the threshold is at 55 cm above mean sea level and the tidal amplitude of the max tide is 50 cm it indicates that only 5 cm surge (or wave setup, or small mean sea level anomaly) are required to push the total

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water level beyond the threshold. This is a bit contradictory with the statement that a “moderate” surge is required (which is also not very well defined).

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2020-367>, 2020.

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