

Interactive comment on “Has dyke development in the Vietnamese Mekong Delta shifted flood hazard downstream?” by Nguyen Van Khanh Triet et al.

Anonymous Referee #1

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The paper presents the interesting case of the flooding in the Vietnamese delta and the consequences of dyke construction on the flooding pattern. The subject well presented and the approach is detailed. Though as authors are mentioning there should be further studies about the possible causes for the new flooding patterns, the paper presents in depth analysis of the different flooded areas in the downstream of the catchment where large-scale high-dyke development were performed. I did miss however details of the quasi-2D model used. Can you please give more explanations on the model, not to repeat what is in the reference, but to explain the underlying equations and the solution of them. Given the fact that there are many models of the Vietnamese delta available to be used, mentioned in the literature (i.e Mike 11 model, TELEMAC, etc) ca you justify why this quasi-2D model was chosen, and what is this model giving different as result as compared with the other available models. The authors are stating

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that the research is carried out triggered by the recent discussions in the Vietnamese public and the media. However being a research paper which will not be read by the general public how would such results be conveyed/ made available to the public, or authorities in charge of the system. What is the concern of the public, just that flood pattern is changed?, or are there consequences of such a change?

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