

Interactive comment on “Projected impact on wave-driven harbour agitation due to climate change – application to the Catalan ports” by J. P. Sierra et al.

Anonymous Referee #2

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The topic is very important since the Iberian nearshore, in general, and the Catalan coastal environment, in special, are subjected to high navigation traffic and also to other important human activities. At the same time, the impact of the climate changes in the coastal environment appears to be more visible in the last years and from this perspective the Iberian nearshore represents indeed a very representative environment. Thus, the work should be both useful and of general interest.

On the other hand, there are indeed some ambiguities in the work that should be better clarified. Even the title seems to be a little too long and somehow confusing. More details related to the modelling process, especially as regards the physical processes

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activated and on the reliability of the wave predictions are required. Moreover, although it might be considered only a minor aspect, it has to be noticed that there is no equation in the paper and this thing appears to be somehow odd. Equations might be useful and more illustrative in the proposed work. The conclusions should be better structured and more concise.

Finally, I should also underline that I suspect that most ambiguities are generated more by the structure and by some inconsistencies in the presentation of the work, while my impression is that the work itself is solid enough. Moreover, the Figures are in general well designed and present the information in a comprehensive way.

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