

Interactive comment on “High resolution wave and hydrodynamics modelling in coastal areas: operational applications for coastal planning, decision support and assessment” by A. G. Samaras et al.

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The paper is of excellent scientific importance and quality, relevant to the scientific targets of the periodical . It addresses a subject very interesting to the community of coastal oceanographers and coastal engineers, operationally important. The approach is clear and the applications illustrative of the validity and the comparative value of the tested wave models.

The paper has a quite excessive length and detailed descriptions that could be reduced a little to offer comfort to the reader.

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From the technical point of view, the terms of the hydrodynamic model (aiming to the description of the waves generated currents) , should be clarified more (adding explicitly the radiation stresses terms, and their derivation).

It would be also interesting to have a qualitative or quantitative aspect of the authors on the importance of the wave generation and nonlinear interactions terms in the two applications, the first on narrow coastal strips and the second on the extend of a medium size coastal basin (bay).

No other technical corrections are recommended. The paper can be published as it is.

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