

## ***Interactive comment on “Coastline evolution based on statistical analysis and modelling” by Elvira Armenio et al.***

**Postacchini**

m.postacchini@univpm.it

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I read with interest the manuscript and found important insights on the shoreline dynamics in a semi-enclosed basin like the Adriatic Sea. Useful predictions have also been obtained by means of a simple numerical solver.

When speaking about the sea-level decrease occurred in 2011-2013 (P9, L5-6), the authors should better explain if the slight accretion also applies to Cells II and III. Further, such behavior could be compared with the shoreline evolution occurred a bit far from the investigated site (e.g., a general retreat has been recorded in that period for the beach of Senigallia, central Adriatic; see Postacchini, M., Soldini, L., Lorenzoni, C., & Mancinelli, A., 2017. “Medium-term dynamics of a middle Adriatic barred beach”.

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Ocean Science, 13, 5, 719-734).

For figures 4, 7 and 9, use of different line styles is suggested, to improve the readability of the shoreline change occurring over time.

When discussing the correlation between southern and northern portions of each cell (P15 and fig.12), it should be clarified if this refers to the only 1992-2013 curve.

References should be checked, as someone is missing.

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2018-239>, 2018.