

## Interactive comment on "Assessment of island beach erosion due to sea level rise: The case of the Aegean Archipelago (Eastern Mediterranean)" by Isavela N. Monioudi et al.

**Anonymous Referee #2** 

Received and published: 13 December 2016

I apologize for the lack of depth study that appears in this my revision. The manuscript deserves more attention, but the revision I had prepared was lost with the luggage during a flight, and I need to close this matter before leaving again. I hope chief editor and authors will forgive me! Pocket beaches' landscape and economic importance in small islands is huge and their extreme sensitivity to human interventions and climate change deserves greater attention. The subject matter of this work is of great interest but little developed in the literature. Impressive is the amount of analyzed data, and results overpass individual case and show what could be the effects of SLR on the entire economic sector of the Greek islands. We recommend the publication of this paper. Things that the authors could clarify: - The width of the beach has been ex-

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tracted from Google Earth images and 4 operators obtained consistent results on 400 beaches, and considers irrelevant the influence of the tide (0,15 m) on its position. But it does not take into account the fact that the baric tides can have a much greater value and add up to the astronomical one. - Sediment texture can not be retrieved from satellite images for pixel size at ground. - No bathymetry data are presented for beaches, which affects the distance from the shore of the depth of closure, value that enters the erosion evaluation resulting in some SLR some models (e.g., Bruun). - Well-sorted sand was simulated, but data provided is D50, not sorting. - Beach rock exposure do not degrade beach aesthetics, its presence is considered a positive factor in Coastal Scenery Assessment.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., doi:10.5194/nhess-2016-336, 2016.