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Comment

## ***Interactive comment on “Simulation of tsunami generation, propagation and coastal inundation in the Eastern Mediterranean” by A. G. Samaras et al.***

### **Anonymous Referee #1**

Received and published: 13 May 2015

Very well presented paper, with adequate references to the existing bibliography, formulating and applying an advanced nonlinear waves model for the description of tsunami generation and propagation.

A comment is worth, regarding the tsunami generation process, described as active and passive one. The two approaches, one at the bed level, the second at the free surface level may not lead to the same initial wave, depending on the generation time  $T$  and the local depth  $h$  (and consequently the local wave celerity  $C=(gh)^{1/2}$ ).

Although the authors make use of formulae (16), and (17) for the selection of the axes of the tsunamogenic region, implicitly selecting an  $M$  value (in Richter scale?), they use an ideal wave amplitude  $\zeta_0$ , although they could use (19) for the real value. Is it necessary?

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The paper can be published after some explanations are given on the above issues

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Interactive comment on Ocean Sci. Discuss., 12, 673, 2015.

**OSD**

12, C174–C175, 2015

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C175

