

## ***Interactive comment on “Fast evaluation of tsunami scenarios: uncertainty assessment for a Mediterranean Sea database” by I. Molinari et al.***

**I. Molinari et al.**

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Dear Dr. Pelinovsky,

thank you for your supportive review. We have now added in the Introduction the citations to 3 out of the 4 of the suggested papers . We apologise for having missed those papers, they are relevant to our study.

We would like to point out that, further than the suggested modifications, we made some progress in the reconstruction method of the initial displacement field that we added to the revised paper that we are now submitting. For this reason, there is now a new paragraph (“Improvement of the initial field reconstruction”). This new part allows us to obtain an unbiased distribution of the misfit and, in our opinion, this strengthens the structure of the paper. We also slightly modified our discussion/conclusions

accordingly to the new findings. Also, numerical values in Figure 3 are now slightly changed with respect to the submitted version: this is due to the removal of a few tens observation points (OPs), because we found that they were erroneously placed in too shallow waters ( $\sim 10\text{-}20$  m). This has the effect of eliminating some outliers in the distribution of the reconstructed waveforms and amplitudes.

Please see also the point-by-point response to Reviewer#1 for further information on these additions.

With kind regards,

The Authors

Please also note the supplement to this comment:

<http://www.nat-hazards-earth-syst-sci-discuss.net/nhess-2016-145/nhess-2016-145-AC2-supplement.pdf>

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., doi:10.5194/nhess-2016-145, 2016.

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