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Natural Hazards and Earth System Sciences
Discussions

Interactive comment on "Large-scale numerical modeling of hydro-acoustic waves generated by tsunamigenic earthquakes" *by* C. Cecioni et al.

Anonymous Referee #2

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Title : "Large-scale numerical modeling of hydro-acoustic waves generated by tsunamigenic earthquakes" by C. Cecioni et al.

The paper is on propagation of hydro-acoustic waves generated by submarine earthquakes and their interaction with the bathymetry. The paper extended the approach Sammarco (2013) and applied to tsunami early warning systems using two main tsunamigenic destructive historical earthquakes occurred in the Mediterranean sea: the AD365 Crete and the 1693 Sicily events. The approach using hydro-acoustic waves in early detection of tsunamis is interesting. The short discussions on the following subjects can be included in the paper upon authors' consent.

1. A short discussion for the cases of landslide generated tsunamis

2. The comparison of the propagation speed of seismic waves and sound celerity of hydro-acoustic waves in terms of earthquake detection can be added to discussions.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 2, 4629, 2014.