

Comment on
Tsunami deposits in Martinique related to the 1755 Lisbon
Earthquake

By Clouard et al.

I appreciate the reading of the manuscript as well as the effort to look for deposits of the 1st November 1755 in Martinique.

The authors identified a new sand deposit constrained by archaeological layers dated from the 18th century that the authors link to the 1755 Lisbon tsunami and use Roger's et al tsunami simulation. In my view this is a good starting point. The authors describe a single sand deposit. Are there any other layers of interest?

There are several reports of the 1755 (or linked to) in the Caribbean but to my knowledge this is not the case of Martinique

The authors constrain the formation of the deposit between 1726 and 1783. The big event in Lisbon falls perfectly in this time interval therefore we cannot exclude it. However, the authors do claim that no major storms occurred in this period. Is this true?

I believe the paper can be published if the authors should be able to:

- Do a comprehensive description of the deposit: geometry, grain size, composition – presence of organic material, shells, foraminifera, diatoms, etc.. see e.g 2010-1239 open file report to see what is needed for tsunami identification
- Try to better exclude the occurrence of a storm or hurricane
- Improve English writing