

## ***Interactive comment on “Stand-Alone Tsunami Alarm Equipment” by Akio Katsumata et al.***

### **Anonymous Referee #1**

Received and published: 5 July 2016

While it seems to me that the idea presented in the paper is quite simple, I had quite a bit of difficulty in understanding the material as presented in the text. I believe a clear statement of the problem has not been thoroughly presented and ideas that can lead to solutions have not been clearly articulated.

For instance, an explanation as to why the technology presented here is useful and responds to an existing need of the population. The reader is left with the idea that the device will be able to warn about seismic events that will be strongly felt by the population/ One then wonders what is the need for such a device. This should be clarified in the manuscript.

I find the literary style confusing and hard to interpret. I found myself second-guessing what many of the paragraphs and sentences meant, but was forced to move on with just a vague understanding of the methodology. This may be a language issue, but it really affects reader's understanding of the material.

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As a consequence, I cannot comment much on the methodology applied in the study, till it is presented in a more clear manner.

I would also suggest the more material is dedicated to explaining the metrics and thresholds that have been selected to identify the tsunami potential for events, possibly accompanied of more clear and larger graphics.

Also the one real need I can see right away for this type of technology, the case of slow seismic events in the near field, which may go undetected by near-field residents but still generate a substantial tsunami event is not mentioned in the study. If the device will not be able to detect such events, it should be clarified in the paper.

Other points to consider:

■ Consider the potential for conflict with official warnings from the relevant authorities.

■ Is this trying to address events that I felt by humans but not large enough (wouldn't exceed threshold) to produce damaging tsunamis? If so, articulated these ideas clearly.

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., doi:10.5194/nhess-2016-164, 2016.

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