Comment on nhess-2021-42

Anonymous Referee #1

Referee comment on "Brief communication: Effective earthquake early warning systems: appropriate messaging and public awareness roles" by Meng Zhang et al., Nat. Hazards Earth Syst. Sci. Discuss., https://doi.org/10.5194/nhess-2021-42-RC1, 2021

This is an important, interesting topic. The paper is clearly written and easy to follow.

There are a number of short-comings which should be addressed in a revised version:

1. more details on the monitoring and detection; information processing and delivery of information should be better clarified; it is not clear what training and public information was delivered prior to and how often prior to the earthquake event;

2. more details regarding the survey respondent recruitment, sampling, and representation should be included; is this a valid sample?

3. the statistical analysis is very thin; need to include at a minimum standard tests of significance, prob values, confidence interval for the comparsions between groups and categories;

4. missed opportunities for more analysis of both differences between the characteristics of those who understood and those who did ot the EEWS; what is the role of education, social status, age, gender, previous experience, etc.

5. more disussiion of the implications for improving earthquake warning and how to increase awareness, knowledge, comprehension and actions resulting from EEWS;

6. comparative analysis between hardware and systems between China/Sichuan and Japan/US/Mexico would be useful;

While the paper has potential, in its present form even as a brief communications, it simply raises more questions than it answers...