

## Revisions: Comments and Authors responses.

**R1** = reviewer 1, **R2** = reviewer 2, **E** = editor, **A** = author

**E:** One of the referees still has some concerns about the validation of the index. From my perspective, this is something that should be discussed a bit more in depth (so far, I only see a sentence in line 277) but that does not necessarily require additional analyses from your side.

**A:** Section added explaining using examples of how the index was validated against real world data.

**R2:** The main concern of this work is the validation of the index. An index is a systematic way to organize and access information or data. While the paper introduces an index and discusses its application to meteotsunami events in the UK, it does not describe a formal validation procedure. Validation is a critical step in assessing the reliability and accuracy of any index or model. It should involve comparing the results produced by the index with observed data to determine how well the index performs in different situations. Validation is particularly important when attempting to apply an index to various geographical regions or events because it helps confirm the index's robustness and applicability beyond its development context. In particular, it is unclear whether the index will be valid for the events of intensity 4 or 5.

**A:** Section added explaining using examples of how the index was validated against real world data.

**R1:** Just please correct Slavic letters (Šepić, Belušić, Mahović, Vilibić) and Demaniel (to Denamiel) in line 35.

**A:** Slavic letters added throughout document and name spelling changed.

**R2:** L270 Vilibic et als (2021) proposed intensity scale results -> intensity scale results proposed by Vilibic et al. (2021)

**A:** Sentence changed.

**R2:** L328 under lying -> underlying

**A:** Changed

**R2:** The graphical quality of Table 2 is poor. Increase dpi.

**A:** Graphical quality altered, and colours removed as per journals guidelines.

**R2:** Supplementary P3 Vela Luka  $R_{total} = 3.3$  not 3.5 (But, this does not change the index score)

**A:** Calculation error changed.

**R2:** Some locations are missing the name of countries. For example, Ciutadella, Minorca

“Wido” is not in Japan

**A:** Country names checked, all ok. Typo error for country of Wido changed to South Korea.