



EGUsphere, referee comment RC1
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Comment on egusphere-2022-925

Anonymous Referee #1

Referee comment on "Global water level variability observed after the Hunga Tonga-Hunga Ha'apai volcanic tsunami of 2022" by Adam T. Devlin et al., EGU sphere, <https://doi.org/10.5194/egusphere-2022-925-RC1>, 2022

The manuscript attempts to quantify Lamb wave-driven global tsunami waves coming out of the Tonga 2022 explosive eruption event. The presented material and methods look fine to me, I don't see any major flaws there. However, the methodology is somewhat simplistic and known to some extent, to which detailed repetition of the theoretical background (in Section 2) may help, but may be partially unnecessary (I have no strong opinion on that). What I can see as a major problem of the manuscript is that it is not discussing already published papers with the same topic - there are several tens of papers on the Tonga 2022 event accessible on the net, yet only 2-3 are mentioned here. Some of them are discussing the topics presented in this manuscript - like <https://doi.org/10.1038/s41586-022-05170-6>, <https://doi.org/10.1007/s00024-022-03154-1>, <https://doi.org/10.1029/2022GL098752>, and some others - so, I suggest to add in the introduction (maybe a separate paragraph) the most relevant papers on the Tonga 2022 event, while discussing your findings with respect to their results in Section 5, including a list of novel results and conclusions that are coming from your study. I am aware that the authors might be slightly annoyed - like I am - with a reaction of a substantial part of the geosciences community after this event, which I summarize as to get fast "award" through the "fastest finger" approach (i.e., be fast and then you will publish in high-level journals), but still this is not justifying a lack of the survey and discussion on the existing findings. In respect to that, the title should also be changed, to avoid "grand" words, so be more precise with respect of the manuscript content.