

Solid Earth Discuss., referee comment RC1  
<https://doi.org/10.5194/se-2021-38-RC1>, 2021  
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## Comment on se-2021-38

Anonymous Referee #1

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Referee comment on "The effect of 2020 COVID-19 lockdown measures on seismic noise recorded in Romania" by Bogdan Grecu et al., Solid Earth Discuss.,  
<https://doi.org/10.5194/se-2021-38-RC1>, 2021

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The manuscript "The effect of 2020 COVID-19 lockdown measures on seismic noise recorded in Romania" by Grecu and others analyze the seismic noise variation in seismic recordings from the stations of the Romanian Seismic Network, before and during the COVID-19 pandemic and lockdown periods.

Generally, the manuscript is well-written and easy to follow. The results are interesting, and, in my opinion, the manuscript can be published after some minor revisions.

I have the following main questions:

- Have you also considered frequency bands lower than 2Hz? Is there a reason why you chose to start from 2-8Hz frequency band?
- Have you detected signals related to weather conditions during the lockdown period? Maybe at those stations where the noise signal is low like the kindergarten station, just after the school's closure.
- Line 294: here you are considering the station deployed at the last floor of the hotel. So, aren't you observing a behaviour like in Figure 8, with different noise levels at different floors?
- Figure 11b: Around August 2019 and October 2019, there is an increase in the noise level. Any thoughts/interpretations about these peaks?

Minor-technical points:

Overall, I suggest increasing the size of the font for the clock plots. Even enlarging, I still found it difficult to read letters and numbers.

Can you please add the holidays (e.g., Orthodox Easter) in those Figures where they are missing (like Figure 7)?

Abstract, Line 9: March 2020

Line 325: typo, IT