

Interactive comment on “The effect of confinement due to COVID-19 on seismic noise in Mexico” by Xyoli Pérez-Campos et al.

Kasper van Wijk (Referee)

k.vanwijk@auckland.ac.nz

Received and published: 2 March 2021

This paper delves deeper into the Mexico example used in Iecoq et al (2020). The presentation of the data, and the analysis of these, is done well. Attached is an annotated pdf with a few comments, but my main suggestions are:

- Figure 3: it is not clear (and I am not sure) that the blue line is the local number of COVID cases. Maybe I missed it in the text, but it should go in the caption, legend, and be quantified on a right y-axis. - Figure 4: this is potentially very interesting. Can the authors apply some statistical analysis for a seeming increase in detections of weak events? What alternative explanations to seismic quieting could give rise to such an increase? - Figure 5: The top panel is very convincing that the lockdown cleans up

C1

urban seismograms. The bottom panel may be convincing too, but it would be good to know at what time of the day (local time) these two events were. If they were at a similar time, this is more evidence of lockdown quiescence. - As this is now part of a special issue where other papers with similar "local" studies have been done, I'd like to see a discussion on how this example relates to other local studies in this special issue.

If the authors are willing and able to address the above points, maybe the results can be incorporated to strengthen the conclusions of this interesting field study of lockdown seismology.

Regards, Kasper van Wijk

Please also note the supplement to this comment:

<https://se.copernicus.org/preprints/se-2020-204/se-2020-204-RC1-supplement.pdf>

Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2020-204, 2020>.

C2