

Dear Sir,

Thanks for the extensive and constructive review of our manuscript. We've considered all the general and specific comments throughout the text. We hope that it corresponds to the full extension of the evaluation and minors the less positive aspects of our manuscript. Nevertheless, noticing that the revision was profound and improved its content scientifically was a pleasure.

The significant points introduced in the new manuscript are the following:

- We add a close-up map for stations OBS01, OBS03 and OBS04 as Figure 5;
- We add, as a supplement, the waveform of raw data for all spectrograms, the corrected instrument response with output in acceleration and filter in the harmonic and tilt noise bands;
- We corrected and improved the English;
- We reformulated all the point-out errors in the manuscript.