

Interactive comment on “Control Spectra for Quito” by R. Aguiar et al.

Anonymous Referee #2

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This is overall a well organized paper, but needing work in places to bring it up in its formatting and how references are used.

Below are my comments in no particular order of importance.

(a) Abstract. Avoid references in the abstract. (b) Abstract. This reads more like an introduction to a paper, not a substantive summary. Review what it means to write an abstract. (c) Units. Rather than mm per year, it should be mm yr^{-1} (where $\hat{\ }^{\wedge}$ indicates superscript). (d) In-text citations. Throughout, you cannot have a "." before your in-text citations. They have to be part of the sentence where they occur. (e) Make sure that ALL facts and information have proper citations. I see a number of cases where you give facts/information, but we do not know how you know this information. So for example (there are many) "Obviously this movement is not uniform along the fault, so

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that the blind reverse faults system of Quito, SFQ, which is part of the megafault, has a turnover rate of 2-4 mm per year." or "It is also well known that local soil conditions are a key factor affecting the spectrum form." We don't know how you know this information or what the references are for either of these statements. You need to go through the entire manuscript and ensure all facts and information are clear. (f) In the introduction (or another section) please give a bit more background about others that have done control spectra, so we have a better idea of their limitations, strengths, and history. (g) Please provide early on, a table that includes all variables (and units), and refer to that table. (h) Figure 6. This is the key to the paper, but VERY hard to see. Consider whether parts of this also need to be uploaded as supplementary figure (e.g., as high resolution, or the data). (i) Figure 7. This does not come out well. Please use different weights for lines, and dashes for some, dash dot for other. Colour alone is not enough to distinguish the lines. (j) Please convert all spanish words to English. (k) Overall, and particularly in the final results, please provide a discussion of uncertainties (of the data, of the method, and particularly the results).

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