

## ***Interactive comment on “Effects of soil settlement and deformed geometry on a historical structure” by Y. Yardım and E. Mustafaraj***

### **Anonymous Referee #4**

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Overall, a reasonably interesting application:

Some brief comments.

A number of places it felt like other references could be included. So for example in the very introduction, and in sentences like “The usage of the TLS technology to assess historic structures has increased in the last decade”. There are a number of other places, although many ARE well referenced, just a few places are not.

Page 5916, just a bit more information could be included on the laboratory techniques used (not a lot more, but a bit more so we have some idea of the uncertainties of the reported values).

C3216

MINOR: Please be careful of precision. So “18.5-19.0 m” not “18.5-19 m”

“Albania and Balkan Peninsula are part of the Alpine–Mediterranean seismic belt. The released energy from the earthquakes of this belt is estimated to be about 15% of the total amount of the overall energy released from the earthquakes around the world (Papazachos, 1988).” This is a bit old as references go.

Please ensure all terms are well defined (e.g., a.g.l. altitude above ground level, needs to be defined first time used).

Please make sure that it is clear for EVERY sentence, the in-text citation if it is appropriate. For instance, you have put at the end of the paragraph on p. 5917 an in-text citation, but have nothing in previous sentences. This is not a good way of indicating your sources. So for example, “Koçak and Köksal in their study of...” needs a ‘year’. The next two sentences need an in-text citation. Please go through the ENTIRE paper and check it for proper in-text citations.

UNCERTAINTY: Although it is fairly clear throughout your procedure, it is not as clear the uncertainty associated with your measurements. Please discuss throughout uncertainty, and give associated ranges for key values found what the uncertainty might be.

FIGURE CAPTIONS. All figure captions need to be more self-standing, so the reader does have to go to the text to figure out what they are.

DOT vs. COMMA: Please ensure you use ‘.’ for a decimal point not a ‘,’.

FIGURE 1. There is no scale or N arrow on Figure 1.

FIGURE 1. Somewhat confusing to have some text vertical, some text horizontal, and the — also horizontal and vertical. I would suggest first three columns have text at 90 degrees, then the next ones normal horizontal. I had no idea what the ‘last’ column was (the profile) other than a ‘pretty’ picture? You can include it, but perhaps half the distance.

C3217

FIGURE 2. Tell the reader where the photos are from (their source), how old is the façade on the left, and for the one in the middle, give the year (don't say "present day" as this dates the paper).

FIGURE 3. The "Albanian National Archive" is very vague. There is still a source of where the figure came from.

FIGURE 4. Needs a lot more detail in the figure caption. The figures themselves should be 2 at most, so they can be a lot larger, otherwise we won't be able to see anything in the final paper. Label them A to E so you can discuss the figures.

FIGURE 5. Figure caption not very complete, no indication of when the pictures were taken (month/year) or of a scale.

Figures 5 to 8. Ensure that any legends (e.g., Figure 5) has a variable and units, and what it refers to. All figure captions should be much more complete. Be careful the text is not too small in any given Figure caption.

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 1, 5911, 2013.