

## ***Interactive comment on “On soil textural classifications and soil texture-based estimations” by Miguel Ángel Martín et al.***

**Miguel Ángel Martín et al.**

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**General response:** We appreciate the general positive characterization and important specific comments in this review.

**Response to specific comments:**

- **Comment from Referee:** Abstract: line 4 – “experimental data for 6300 soil samples”. The same occurs in the Conclusions section in line 10 – “for 6300 predominantly”. In the Materials and Methods section, authors included a total of 6240 soil samples in this study after application of a selection criteria (described in Martín et al. (2017a)). I think it’s better to put the same value of samples included in the study, which is 6240.

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**Author's response:** We agree with the Referee's suggestion

**Changes in Manuscript:** The mismatch in number of samples was corrected and 6240 is used as suggested by the Reviewer.

- **Comment from Referee:** Line 5, 6 – “original ones in 25 and 85% of cases” but in Results section -> page 4, line 31 – “bigger than 97% of the total”. Why this difference?

**Author's response:** There is no discrepancy between the content of the line 5,6 and line 4/31 because the line 5,36 refers to the '3-2-2' triplet, and Page 4 line 31 refers to '1-3-3', '2-2-3' and '3-1-3' triplets.

- **Comment from Referee:** Line 6 – The triplet 'sand-silt-sand' must be 'sand-silt-clay'

**Author's response:** We agree with the Referee's suggestion

**Changes in Manuscript:** The “silt-sand” in line 6 was changed to “silt-clay.”

- **Comment from Referee:** Discussion: Line 19 – “The diameter. medium sand” (line 21). It's difficult to understand this phrase by looking at figure 2! Figure 2 should illustrate the phrase? It's not very clear!

**Author's response:** The line 19 in discussion indeed contradicts to the content of Fig. 2, because axis titles are wrong (the first Reviewer noted this error too).

**Changes in Manuscript:** Axis titles were changed: the abbreviation “mkm” on the vertical axis was changed to “%”, and the same abbreviation at the horizontal axis was changed to “mm”.

- **Comment from Referee:** There is a PDF file attached with some misspellings found on the manuscript.

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**Author's response:** Once again, thanks to this Reviewer for very helpful review.

**Changes in Manuscript:** Spelling errors were corrected as suggested in the attached PDF file.

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Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2017-84>, 2017.

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