SOIL Discuss.,
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Interactive comment on "Physical, chemical and mineralogical attributes of a representative group of soils from the Eastern Amazon, Brazil" *by* Edna Santos de Souza et al.

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Reviewer C. Pain:

Review by Colin Pain General Comments Aims are clear. Methods are appropriate. Section 3, Results and Discussion. This section I found hard going, probably because the results and discussion are mixed together. It would be better to present the results in one section, and then discuss them in a following section. This of course requires a major rewrite, but I C1 comment think the paper would be better for it. Section 4

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Conclusions. This is a bit weak considering all the very useful information you present in the paper. If you reorganise section 3 as I suggest you should be able to provide a more complete set of conclusions that are important for soil and land use in the area.

Reply: Thank you for your suggestions. The section 3 was reorganized into results and discussion. Conclusions were changed considering the relationship between the attributes as a function of the multivariate analysis. We also provided a more complete set of conclusions that are important for soil and land use in the area.

Specific Comments You should include more details about the geological units, because their lithologies are important for soil formation. You could perhaps include a table listing formations and their lithologies? Technical Corrections Figure 1 is too small – it is impossible to read the text.

Reply: figure 1 has been amended and extended

This comment also applies to Figs 2, 3 and 4. I think you need to redraw these maps so they are legible at the scale they will be published. In fact, you should check all the figures to make sure that text can be read at the published size. Also in Figure 9 some text is covered by other text.

Reply: figures 2, 3, 4, and 9 (current 11) were changed.

I have uploaded a file with some suggested edits.

Reply: All suggestions and corrections were included in the text.

CERTIFICATE OF ENGLISH EDITING - Editage

Thanks for the comments and suggestions that contribute significantly to improve the quality of the manuscript.

Kind regards,

Authors

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Please also note the supplement to this comment:
https://www.soil-discuss.net/soil-2018-3/soil-2018-3-AC1-supplement.pdf

Interactive comment on SOIL Discuss., https://doi.org/10.5194/soil-2018-3, 2018.

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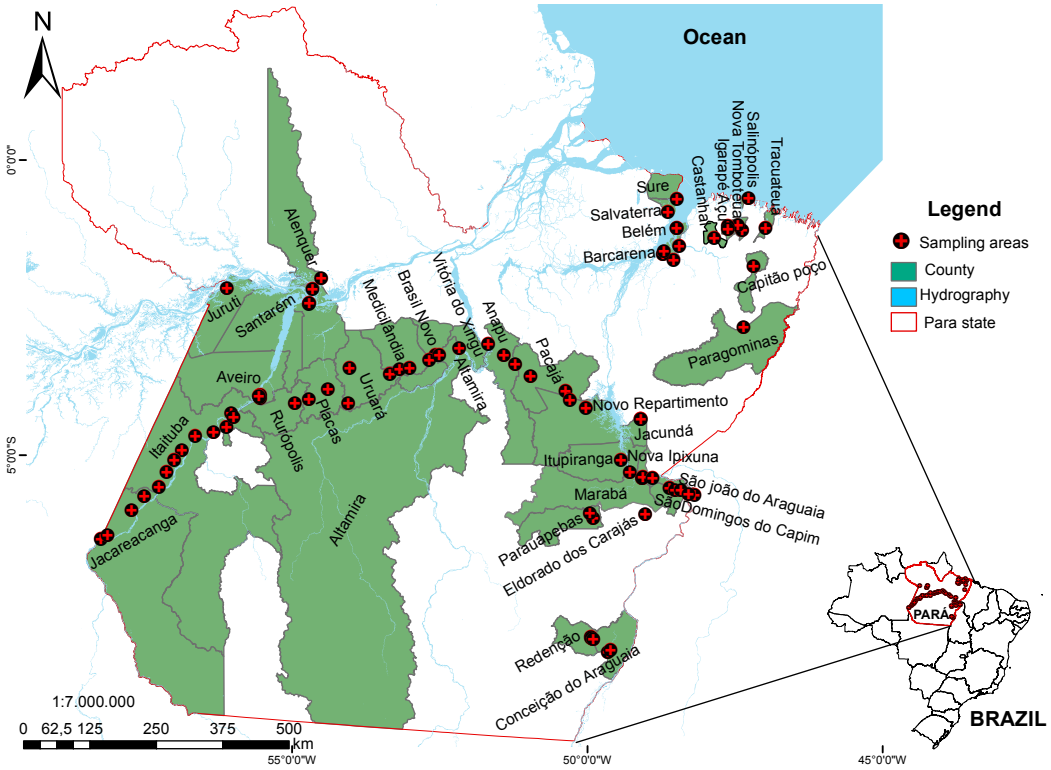

Fig. 1. Map of soil sampling areas of the Para state

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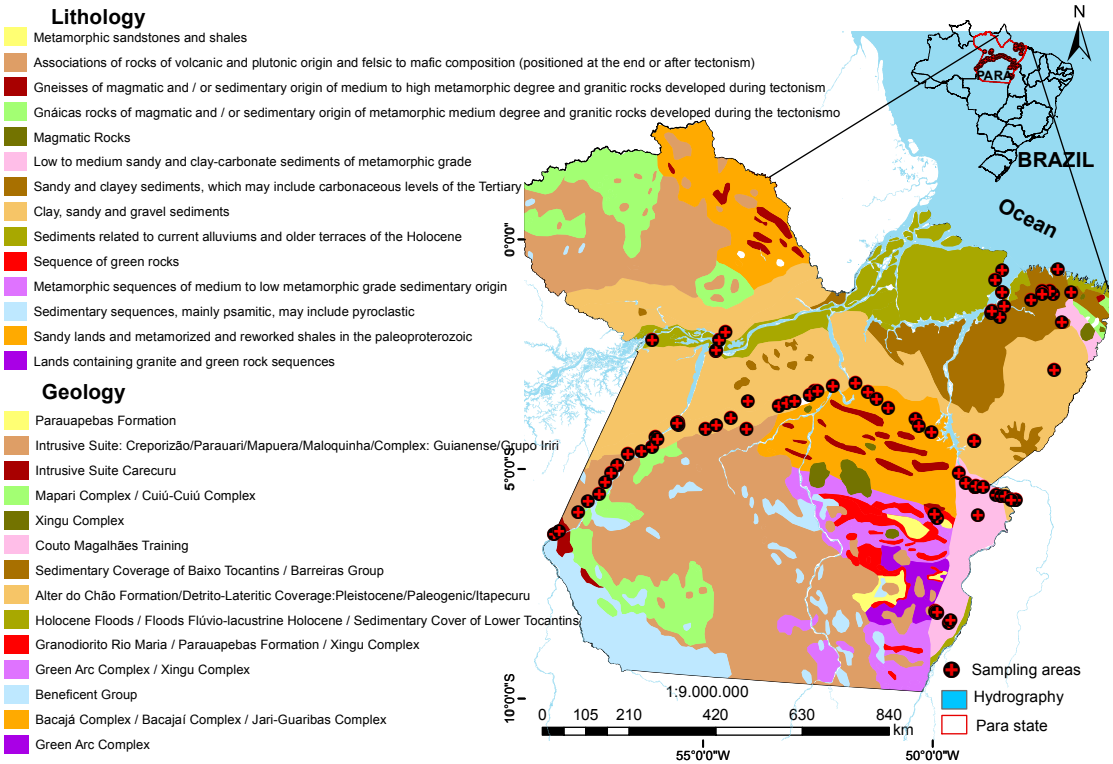

Fig. 2. Geological characterization and lithologies of the soils of Para state

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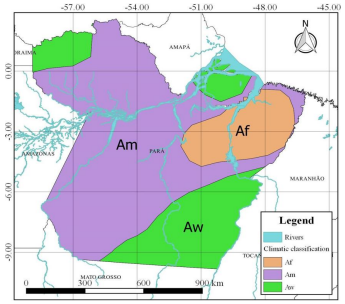

Figure 3. Map of climatic characterization of the Pará state.

Fig. 3. Climatic characterization of the Pará state

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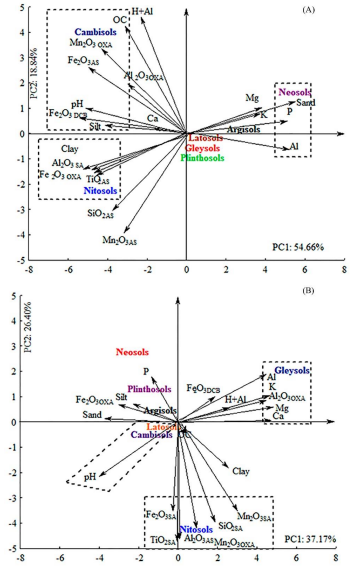

Figure 11. Principal component analysis (PC1 and PC2) of the physical, chemical and mineralogical attributes of the samples from the surface layers (0-0.2 m) (A) and the subsurface layers – diagnostic horizon (B) of the soils of Para state.

Fig. 4. Principal component analysis (PC1 and PC2) of the physical, chemical and mineralogical attributes of the samples from the surface layers (0-0.2 m) (A) and the subsurface layers – diagnostic horizon (B

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