

## ***Interactive comment on “Refining physical aspects of soil quality and soil health when exploring the effects of soil degradation and climate change on biomass production: an Italian case study” by Antonello Bonfante et al.***

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We thank Dr.Nater for his very positive evaluation of our paper. His valuable comments lead us to the following reaction and to corresponding modifications and additions in the manuscript. Line 265: The remark on effects of plowing on soil classification is justified. Mentioning of effects of plowing on soil classifications originated from the desire to have permanent names for a given soil that would not change after, for example, plowing. But there are indeed exceptions as the reviewer points out. We have now modified the sentence: A given soil classification should, to obtain permanent names, not change

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following traditional management measures, such as plowing. This does, however, not apply to all soils and then a different name will have to be assigned. Line 295. As requested, some additional climatic information is presented for the RCP 8.5 scenario. More information is provided by the cited paper by Bucchignani et al 2015. Line 16-18, and Figs 4,5 and 6. The reviewer is correct:  $Y_p$  is soil independant. Captions will be improved. We do state that  $Y_p$  for future climates are unknown, but that can indeed be articulated better by mentioning  $Y_p$ ( reference climate) Figure 3 captions are clarified. The additional technical corrections have been made. Thanks.

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