

Interactive comment on “Soil carbon stocks and their variability across the woodlands of peninsular Spain” by E. Doblas-Miranda et al.

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Recommendations suggested by Referee #1 in order to make the comparisons meaningful were highly appreciated. Thanks to the modifications, following Jobbágy and Jackson (2000) to obtain a mean of 3.7–5.6 Kg of SOC m⁻² for the first 20–40 cm of soil, comparisons with other studies have been improved and thus are now reflected in the text.

In relation to the analyses performed and the interactions between the explanatory variables, several changes have been performed. Preliminary correlation analyses recommended by the reviewer suggested that elevation and mean annual temperature were in fact not independent. Therefore, the interaction between these two variables was added to the model as explanatory variable. Subtle differences in the stepwise

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procedure changed the final output of the model, which included the interaction as an influencing variable while texture and consistency were excluded. Considering these modifications, some results have suffered slight alterations and therefore the map has been redone. In any case, principal results are basically the same and discussion remains almost unaltered. We highly appreciate the suggestion of the reviewer, which clearly has improved the quality of the manuscript.

We agree with all the minor comments suggested by the referee and therefore suggestions will be included in the revised version of our paper for publication in BG. We would like to thank again the referee for the recommendations

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