

## ***Interactive comment on “Modelling soil organic carbon stocks in global change scenarios: a CarboSOIL application” by M. Muñoz-Rojas et al.***

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We thank Artemi Cerdà for the insightful comments and constructive suggestions. We gratefully accept all suggestions which have improved considerably the manuscript.

Following your suggestion, Valencia region has been removed from the study area map (please, see new Figure 1R attached) and the materials and methods section.

We have introduced some citations to support the important role of land use changes on organic carbon and erosional processes (Barbera et al., 2012) and recurrent forest fires in climate change scenarios (Martin et al., 2012). Also, new citations have been added regarding the beneficial effect of soil organic erosion preventing soil erosion and desertification (Cerdà, 1998; García-Orenes et al., 2009).

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Fig. 1.

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