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## ***Interactive comment on “Soil organic carbon along an altitudinal gradient in the Despeñaperros nature reserve, Southern Spain” by L. Parras-Alcántara***

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Dear Professor Artemi. Your suggestion is very interesting in soil - elevation (topography) – climate relationships. The study of topographical contrasts linked to soil organic matter variation is an issue that can be analyzed, as there are many factors (physical, chemical, geographical ...) that determine the organic matter distribution in terms of altitude, and when it comes to organic matter we are also referring to carbon. However, it is very difficult to study the relationship climate - organic matter, given the lack of data, especially old data. In addition, I think it should be standardized parameters such as: draw-data, working scales, edaphic horizons or sections of control ... for this

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work type, as many of the available data were not developed initially for this end. The study of climate-soil relationship should not be a fad. Moreover, therefore I think that the scientific community should be self-critical with respect to certain claims made in relation to soil-climate variables. As you say climate change is here, but all elements of the soil are not be affected by these changes in climate.

Sincerely Luis Parras-Alcántara

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Interactive comment on Solid Earth Discuss., 6, 2495, 2014.

**SED**

6, C1079–C1080, 2014

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