

Interactive comment on “Thermal shock and splash effects on burned gypseous soils from the Ebro Basin” by J. León et al.

J. León et al.

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Thanks for the comments because we have been a big help to correct some errors. Replying by paragraphs: -The authors refer the readers to Badia et al. (2013a) for more details about the soils, but the name Leptic Gypsisol does not match the terminology in Badia et al. (2013a).

If you goes to the page 19, table 7, in Badía et al., 2013a, you can find this terminology. The soil has a trend of Haplic Leptisol to Leptic Gypsisol. For simplify we used this terminology Leptic Gypsisol for the head slope.

-Furthermore, no details are given about the BURNED Haplic Gypsisol, for example when did it burn or at what severity. Since the BURNED Haplic Gypsisol had already

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been sub-jected to an unknown duration and intensity of heat before the samples were collected, the subsequent laboratory heating would not unravel the effects of the initial heating

Respect to this point, in the experiment we used two different soils and two soils with different external effects -fire effect-. Respect to the severity of the fire, it was low to medium severity fire, because it was in shrub area. We don't use the terminology severity, but we explain why used the temperature in the experiment, because we have other experiments that we referenced in Pérez-Cabello et al., 2012 (page 1824, line 26).

-the manuscript does not use consistent terminology for the soils throughout the manuscript. For example, Table 1 uses Leptic Gypsisol (LP) and Table 2 uses (LP) Haplic Leptosol.

Finally, my personal apologies, because this is an error, we will modify this terminology and we will modify your suggestions with the english.

Please also note the supplement to this comment:

<http://www.solid-earth-discuss.net/5/C779/2013/sed-5-C779-2013-supplement.zip>

Interactive comment on Solid Earth Discuss., 5, 1817, 2013.