

## ***Interactive comment on “Short-term spatio-temporal spring grassland fire effects on soil colour, organic matter and water repellency in Lithuania” by P. Pereira et al.***

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The manuscript falls within the scope of SE and the research carried out is of good quality. However, I have three main concerns:

- 1) The quality of English grammar and style must be deeply revised by a native English-speaker.
- 2) I am not in agreement with the statistical approach carried out. I think that non-parametrical tests should give more solid results. Variable transformations to fit the normal distribution are useful when most variables are normally distributed. But I am not sure this is useful when most (in this case all) variables are not normally distributed.

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Especially, I have serious concerns with the analysis of colour data.

- 3) I am not convinced by the explanations about changes in soil organic matter content and soil water repellency as a consequence of leaching of organic substances (under the environmental conditions of the study area). May be right, but more solid support is necessary.

Detailed comments can be found in a separately uploaded file (see the supplement).

Please also note the supplement to this comment:

<http://www.solid-earth-discuss.net/5/C768/2013/sed-5-C768-2013-supplement.pdf>

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Interactive comment on Solid Earth Discuss., 5, 2119, 2013.