

## ***Interactive comment on “Effects of fire on ash thickness in a Lithuanian grassland and short-term spatio-temporal changes” by P. Pereira et al.***

### **Anonymous Referee #1**

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Paper of interest, prepared for a large and impressive team of interdisciplinary researchers with a huge scientific productivity, as we can see in the self-citations. The simple method of measurement (cm-iron bars) is compensated with an elaborate analysis of the data.

The main objective of this work is to quantify the spatial and temporal (45 days) distribution of ashes thickness and study the main controlling factors. The measures on ash thickness is made but.. what about "the main controlling factors"? You discuss about the influence of vegetation recovery, fauna, wind, runoff...Apart from precipitation, Can you introduce quantitative data of these factors?

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Some of the conclusions seem proper to the discussion.

Maybe the paper can be re-organized as... Spatio-temporal distribution of ashes in a burned grassland: evaluating (interpolation, data collection) methods?

I recommend that the figures are self-explanatory: DG, W, B, LG...

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Interactive comment on Solid Earth Discuss., 4, 1545, 2012.

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