

## ***Interactive comment on “Polycyclic aromatic hydrocarbons in post-pyrogenic soils of drained peatlands in West Meshchera (Moscow Region, Russia)” by A. S. Tsibart et al.***

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We are sincerely appreciative of the reviewer for his comments and a deep review of our manuscript! We have taken into account his observations and have incorporated corrections into the text.

- The paper was checked and corrected by native speaker.
- We have taken into account the observations of the referee and added them in text with the reference. The errors marked in the annotated file were corrected.
- The quality of pictures was improved and the A and B sections in figures 5 and 7 were

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split.

- The mechanisms of PAHs accumulation offered and discussed by the referee were added in the discussion section with a reference.
- In the paper we investigated different types of soils –podzols and histosols. Podzols are formed under forest vegetation on sandy parent material in terms of water percolation. These soils have eluvio-illuvial distribution of organo-mineral complexes within the profile. Histosols are characterized by the accumulation of organic matter and various compounds in thick peat horizons, and they contain more material available for burning. One goal of our study was to establish the patterns of PAH accumulation in different soil types and to check if post-fire PAH distribution follows general soil forming processes. We added this explanation to the text.
- We added results from Zaccone et al. (2014) to our paper.

Please also note the supplement to this comment:

<http://www.solid-earth-discuss.net/6/C929/2014/sed-6-C929-2014-supplement.pdf>

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Interactive comment on Solid Earth Discuss., 6, 1265, 2014.

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