

Interactive comment on “Wildfire effects on biological properties of soils in forest-steppe ecosystems of Russia” by E. Maksimova and E. Abakumov

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Dear Referee! Thank You very much for your comment to my manuscript. I have change the manuscript according to your suggestions, the following comments I have made to Your recommendations:

Study materials This chapter was added by the following short review:

Samara region is characterized by considerable heterogeneity of natural conditions and soil cover. This is connected with its location in two natural zones - forest steppe and steppe which boundary passes through the bed of Samara River (Vasil'eva, Baranova, 2007). The most important feature the forest-steppe is the soil diversity, which reflects

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primarily a transitional character between forest and steppe zones. Areas of Luvisols, Ubric luvisols, leached and calcareous Chernozems cover the watersheds and values of the forest-steppe zone (Nosin, 1949; Vasil'eva, Baranova, 2007; Abakumov, Gagarina, 2008; Abakumov et al., 2009; Urusevskaja et al., 2000). The steppe zone of Samara region is a zone of ordinary and southern calcareous chernozems dominance in the soil cover. Generally soils are clay and clay loam (80%). The presence of coarse material as gravel and stone is often observed in the soil mechanical composition of the forest-steppe zone (Nosin, 1949; Vasil'eva, Baranova, 2007; Abakumov, Gagarina, 2008; Abakumov et al., 2009; Urusevskaja et al., 2000).

Introduction The sentence was changed to “Forest fires radically changes edaphic conditions, and, hence, affect the microbiological and biochemical processes in the soil”.

References The list of references was added by:

Abakumov, E.V. and Gagarina, E.I.: The soils of Samara Luka: differentiation, genesis, protection, St. Petersburg State University, St. Petersburg, 190 pp., 2008. Abakumov, E.V., Fujitake, N. and Kosaki, T.: Humus and humic acids of luvisol and cambisol of Jiguli ridges, Samara Region, Russia, Applied and Environmental Soil Science, Article ID 671359, 2009. Nosin, VA, etc.: Soils of Kujbyshev region, OGIZ, Kujbyshev, 383 pp., 1949. Vasil'eva, D.I. and Baranova, M.N.: Natural resources of Samara region, Samara, 40 pp., 2007. Urusevskaja, I.S., Meshalkina, J.L. and Hohlova, O.S.: Geographic and genetic features of luvisols' humus status // Soil Science, 11, 1377-1390, 2000.

Thank You very much!

With kind regards, Corresponding author Ekaterina Maksimova

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Interactive comment on Solid Earth Discuss., 6, 71, 2014.

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