Interactive comment on “Influence of long-term mineral fertilization on metal contents and properties of soil samples taken from different locations in Hesse, Germany” by S. Czarnecki and R.-A. Düring

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Received and published: 14 November 2014

Dear Referee,
Thank you for giving us the opportunity to rearrange and correct our manuscript and we are thankful to your comments that helped us to improve the research article. Here are the details of our responses to the suggestions:

1- Experimental design The explanations about the experimental design are rewritten. Please see “Section 2.1 Study area and fertilizer treatments” of the manuscript (please see yellow highlighted lines 73-79, 81, 83-86).

2- Pseudo total The description of “pseudo total metal content” is given in the manuscript (please see lines 220-224 in the revised manuscript- in yellow highlighted).


4- Material and Methods (Soil Classification) Soil classification according to WRB 2014 is added to the manuscript. Please see “section 2.1 Study area and fertilizer treatments” of the manuscript (please see lines 83-86) (in yellow highlighted). The reference is also added to the list. [IUSS Working Group WRB. 2014. World Reference Base for Soil Resources 2014.International soil classification system for naming soils and creating legends for soil maps. World Soil Resources Reports No. 106. FAO, Rome] (please see lines 422-424).

5- Results and Discussion: the meaning of “considerable” The word “considerable” is changed to “significant” in the manuscript. Please see “line 133” in the corrected manuscript (in yellow highlighted).

6- “Results” section of the manuscript is revised. A new sentence is added (please see lines 270-272) and between lines 283-293 and 297-322 are rewritten (all is in yellow highlighted). The reference “Golia, E. E., Dimirkou, A., and Mitsios, I. K.: Influence of