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Comment

## ***Interactive comment on “Microbial biomass and basal respiration in Sub-Antarctic and Antarctic soils in the areas of some Russian polar stations” by E. Abakumov and N. Mukhametova***

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Dear anonymous referee # 1! Thank You very much for your comments to my paper “Microbial biomass and basal respiration in Sub-Antarctic and Antarctic soils in the areas of some Russian polar stations” “Pedological investigation” was changed to soil research. As for “Ahumic” soils this is correct according to Tedrow (detailed discussion of this term in book Antarctica: Soils, Weathering Processes and Environment” (Campbell I.B., Claridge G.G.C., 1987) As for sentence “here soil” is substantiated for which zones we means Reference “Abakumov et al, 2010” corrected Background added to the introduction. Reference “Gilichinskiy et al” corrected for 2010 yr. For

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line 9 “Temeparature are” were corrected for the right time use. (.) is added as was suggested by referee “The study site were situated ” added instead “The study sites are situated” The codification of the study plots were made for tables and text. It was specified the belonging of KGI and L-K plots to different regions. Abakumov, Andreev, 2010 was changed to Abakumov and Andreev, 2010 Abakumov, 2011 was changed to Abakumov, 2010-a “Many authors” added by authors who have think that this is tundra Casanov-Kathny, Cavieres is substituted by Casanov-Kathny and Cavieres, 2012 Next technical mistake is improved The specification of the temperature measurements are given with special reference to zonal dividing of Antarctic. References Abakumov, 2010 and Abakumov et al, 2008 are specified and corrected Number of soil samples as well their codification in specified in text. Ornhitosools name was corrected and references to fig. 1 Methods description and references are improved according suggestions Reference for Bockheim, 2013 is added. Tables 1 and 2 are cited mw in the text. More deep interpretation of data obtained has been provided. One way Anova test were conducted and its results have confirms an essential difference between Sub-Antarctic and Antarctic soils in main microbiological characteristics. Paper was reedited according reviewer suggestions and was corrected by American manuscript editors.

Thank You Very Much for Your work With Kind Regards Corresponding author Evgeny Abakumov

Please also note the supplement to this comment:

<http://www.solid-earth-discuss.net/6/C485/2014/sed-6-C485-2014-supplement.pdf>

Interactive comment on Solid Earth Discuss., 6, 869, 2014.

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