

Interactive comment

Interactive comment on "Development of bacterial communities in biological soil crusts along a revegetation chronosequence in the Tengger Desert, northwest China" by Lichao Liu et al.

Anonymous Referee #2

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This manuscript presents the "Development of bacterial communities in biological soil crusts along a revegetation chronosequence in the Tengger Desert, northwest China". The major findings show that over 60 years, bacterial richness and abundance reached their peak after 15 years of BSC establishment. The results suggested that changes in the bacterial community structure may be an important indicator of the biogeochemical nutrient storage in early successional stages. Overall, I found the information about the bacterial component of BSC presented in the context of succession very interesting and the results in this paper to be sound and well presented. There are very few reports on the bacterial composition of BSC yet their function is equally important to the bigger organisms such as lichens, mosses and cyanobacteria. I commend the authors

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results. In Germany, Langhans et al 2009 studies succession at a shorter time scale

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diversity however these results do not identify which crust organisms are drivers of soil

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properties. When describing the recovery phase one would expect the overall diver-

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erature Line 91 'The BSC could....' Line 94 add (MS) after sand for first mention of

abbreviation Line 99 'In each revegetation site...' add depth of cores Results Line 226 remove space between 31 and % Line 232 delete 'this' Line 245 changed composed to comprised Line 250 change testified to verified Discussion Line 305 '...that display good adaptation to drought conditions together with important roles...' Line 309 More recent information.... Line 344 'properties were...'

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