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Interactive comment

Interactive comment on "Bryophyte-dominated biological soil crusts mitigate soil erosion in an early successional Chinese subtropical forest" by Steffen Seitz et al.

Anonymous Referee #2

Received and published: 27 April 2017

I have received your manuscript "Bryophyte-dominated biological soil crusts mitigate soil erosion in an early successional Chinese subtropical forest" for review. There are elements to like about this paper, especially the fact that this is one of the rare studies that addresses the influence and role of biological soil crusts on in early secondary succession after severe human impact. Before the manuscript can be considered for publication in Biogeosciences, the authors should nevertheless consider some general comments and rework parts of the manuscript. There is a general question as to how the soil crust in this studied can be referred to. In the introduction (first sentence) the authors refer to the importance of biocrusts in many ecosystems. By checking the reference and also other major biocrust research and literature it becomes obvious that

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hypotheses should come with explanations or at least theoretical background. In Hyp

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this shift of species? The statement could significantly gain importance if the change

in species could be correlated to the decreasing light. As it stands now, it reads like an assumption. 279-280: Irrelevant for the study. Can be deleted. Additional minor comments: Some of the writing does not seem to be appropriate. Please reconsider 34: "Our" experimental forest ecosystem 36: Biocrust "covers" were still increasing 42: quickly colonise gaps in" higher vegetation layers" – what do you mean with layers? Which gaps are closed? 207: "traces of lichens" 210: organisms were found in minor numbers – is this fewer species, individuals or coverage? 243: early stage of the ecosystem 283: fasten themselves on the soil surface 329: They developed quickly to later-stages

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