

## ***Interactive comment on “Predominance of methanogens over methanotrophs contributes to high methane emissions in rewetted fens” by Xi Wen et al.***

### **Anonymous Referee #2**

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The study of Wen et al on the "Predominance of methanogens .... in rewetted fans" is very well written and presented in a clear way. In this study the abundance and community structure of methanogenic and methanotrophic microorganisms in two rewetted fans is related to geochemical parameters. However, the study has in my opinion to major drawbacks: - In the title and within the text the authors refer to methane emissions of the two fens, however no data on methane emission are presented. With so many authors involved there certainly should be data on this important factor?? - The relation / explanation how the environmental parameters influence the abundance or community structure of the methane related organisms is not convincing; it seems to be rather biased. I know it is not easy to explain microbial

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patterns with geochemical ones, but I would suggest a more serious statistic here. -  
Some minor comments can be found in the attached pdf file

Please also note the supplement to this comment:

<https://www.biogeosciences-discuss.net/bg-2018-184/bg-2018-184-RC2-supplement.pdf>

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Interactive comment on Biogeosciences Discuss., <https://doi.org/10.5194/bg-2018-184>, 2018.

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