

***Interactive comment on* “Influence of hydrological fluxes on bio-geochemical processes in a peatland” by N. Bougon et al.**

Anonymous Referee #3

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Bougon and colleagues presents an experiment research focused on influence of hydrological conditions on nitrate and sulphate fate in peatlands. The topic is appropriate for Biogeosciences journal, however I strongly believe that the manuscript need a thoughtful major revision. Below I provided in detail a list of recommendations but my main comments gravitate around two main aspects: 1) A deep coupling between field data and results from batch experiments; 2) A more exhaustive and convincing explanation of the link between nitrate removal and microbial diversity.

See my attached file for my detailed comments.

Please also note the **Supplement** to this comment.

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