

## ***Interactive comment on “Greenhouse gas emissions from fen soils used for forage production in northern Germany” by A. Poyda et al.***

### **Anonymous Referee #3**

Received and published: 25 May 2016

This manuscript presents CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O fluxes measured at four different field sites which are former peatlands and now managed and drained in different intensity. Greenhouse gas fluxes are presented over the year as well as annual balances. Multi-year measurements were carried out using the closed chamber method. The frequency of the measurements was weekly which is quite high for manual measurements and many additional measurements on soil properties were conducted as well. The measurement and modelling methods used in this study are well described. The topic of the manuscript is well within the scope of the journal. This paper is of high scientific quality, it is well structured. The results are presented in a clear way and discussion is comprehensive. I really like the figures, they are excellent. Only Figure 8 might need

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some improvement as it is quite difficult to read maybe you could try to use different symbols than the filled dots. I really like the comparison of the carbon footprint of the different management practices. I highly recommend that manuscript to be published in Biogeosciences Discussions.

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Interactive comment on Biogeosciences Discuss., doi:10.5194/bg-2015-635, 2016.

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