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Comment

***Interactive comment on “Annual emissions of CH<sub>4</sub> and N<sub>2</sub>O, and ecosystem respiration, from eight organic soils in Western Denmark managed by agriculture” by S. O. Petersen et al.***

**Anonymous Referee #1**

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Annual emissions of CH<sub>4</sub> and N<sub>2</sub>O, and ecosystem respiration, from eight organic soils in Western Denmark managed by agriculture

S. O. Petersen, C. C. Hoffmann, C.-M. Schäfer, G. Blicher-Mathiesen, L. Elsgaard, K. Kristensen, S. E. Larsen, S. B. Torp, and M. H. Greve The paper reports on annual emissions of CH<sub>4</sub> and N<sub>2</sub>O from organic soils managed by agriculture in Denmark. Overall the manuscript is well written and carefully justified. However, a few shortcomings should be addressed: the first is the fact that only one year was used. The authors highlighted this problem and presented the average temperature and precipitation of the reported year compared to the 20 years average in Table 1. Some of the precipita-

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tion (for example at Vildmose) in 08/09 is very different from the 20 years mean: there should be mention in the discussion and/or conclusion about this. Moreover, some more statistics (min max, sd) should be presented also for the Tann of 08/09, not only for the 20 year, so that the reader could understand how atypical were 08/09. Another major point of the manuscript is the lack of originality: from the conclusions it seems that the results presented are just confirming previous results. I would suggest to the authors to think about and better highlight the novelties of their study. This would make the paper a more relevant contribution to the field. Specific comments: Page 10019 Line 16: I would guess Lohila et al., 2003 were not the ones to discover this: include more appropriate reference Page 10020 Line 21: “but also” replace with “and consequently” CH<sub>4</sub> emission is connected to the C turnover, not in opposition Page 10023 Line 18-19: how far are the meteo stations from your sites? Indicate. Page 10031 Line 24: “resourece”? correct Page 10040 Line 3: why did you measure SO<sub>4</sub>? Explain the goal of these measurements.

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**BGD**

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