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Comment

Interactive comment on “Nitrous oxide production in boreal soils with variable organic matter content at low temperature – snow manipulation experiment” by M. Maljanen et al.

Anonymous Referee #2

Received and published: 1 September 2009

The paper is addressing nitrous oxide emissions from boreal ecosystems and focuses on winter emissions. The paper has valuable data, a good discussion and conclusion; Thus I recommend it for publication, with minor corrections.

This since there are to my knowledge errors regarding the use of TDR for soil moisture measurements in mull soil. The use of the TDR in the sandy soil is ok. The TDR from Campbell should not be used, are not calibrated for soils with a high organic content. Please read the manual of the sensors or literature on TDR sensors. In order to use the sensors for high organic soils, these has to be calibrated for the soil separately, - if so then present the calibration data for the mull soil. If no calibration has been done,

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delete the TDR data for the mull soil from the manuscript. This will not affect the focus of the manuscript, conclusion and only to a very minor part affect the discussion.

Also I would recommend the authors to check the references, there are inconsistencies in the use of , after first name of authors. Furthermore in one case there seems to be missing a letter for an author's first name or the reference is wrong.

Interactive comment on Biogeosciences Discuss., 6, 5305, 2009.

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