

## ***Interactive comment on “Characterisation of NO production and consumption: new insights by an improved laboratory dynamic chamber technique” by T. Behrendt et al.***

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Received and published: 19 June 2014

The major motivation for submitting such an extensive MS was to provide an overview about major drawbacks from earlier studies, which are necessary to understand why the setup of the incubation system was completely changed. Furthermore, the authors want to include all details in one MS which are necessary to enable other scientists to build a similar incubation system. By the section about the release of VOCs the authors demonstrated that this incubation system is of great value for other trace gases, too. The authors see a strong need for the use of excessive equations to point out the relationships between the compensation point of NO with soil moisture and soil tem-

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perature which have been contradictory in earlier publications (e.g. Feig et al., 2008; Gelfand et al., 2009; Laville et al., 2009; Yu et al., 2008). The introduction of the water vapor balance improved significantly the precision of gravimetric soil moisture which led to misinterpretation in earlier studies (e.g. Gelfand et al., 2009). Finally, the authors want to thank the reviewer for the excellent evaluation of the MS and recommendation to publish as it is.

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Interactive comment on Biogeosciences Discuss., 11, 1187, 2014.

C2708