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## ***Interactive comment on “Spatial variations of nitrogen trace gas emissions from tropical mountain forests in Nyungwe, Rwanda” by N. Gharahi Ghehi et al.***

### **Anonymous Referee #1**

Received and published: 16 January 2012

Comment posted 5.1.2012 This is a very nice paper on N<sub>2</sub>O and NO emissions from tropical forest soils. You postulate that the 'negative correlation (only N<sub>2</sub>O) with soil pH and a positive correlation with free iron suggest that chemo-denitrification might an important production pathway'; and complete your paper with this sentence 'In conclusion improved understanding and process based modeling of N trace gas emission from tropical forests will not only benefit from better spatial explicit trace N<sub>2</sub>O gas emission and basic soil property monitoring, but also by differentiating between biological and chemical pathways for N trace gas formation'.

Your concluding remark would be much stronger,if you could provide evidence of

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chemodenitrification being important. It should not take long to carry out a simple test, provided you have the soils.

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Interactive comment on Biogeosciences Discuss., 8, 11631, 2011.

**BGD**

8, C5355–C5356, 2012

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