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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

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Comment posted 5.1.2012 This is a very nice paper on N2O and NO emissions from tropical forest soils. You postulate that the 'negative correlation (only N2O) 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 N2O 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.

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