Interactive comment on “Seasonal trends of dry and bulk concentration of nitrogen compounds over a rain forest in Ghana” by F. Fattore et al.

Anonymous Referee #2

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General comments

The paper describes interesting observations of N-compounds over a full year in Ghana. The description of the way the observations are made, and the detailed analysis is good, and makes it possible to use these data for further analysis. The paper ends with the sentence that, based on the observations, estimates could be made of the N-deposition over the rain forest.

I would have liked to see in fact, based on the observations, a first estimate of the dry and wet deposition of N. This can be made easily, and could have been compared to values of N-eq/ha/year over for example the Us or Europe, and would show that the values over Ghana are much less, probably an order of magnitude.
It would have been interesting to make some remarks concerning estimated emissions of NO from soil, relative to the N from biomass burning, the NO from soil might well be a significant source of N-compounds over the forest.

And finally, some remarks might be made concerning the use of chemical transport models. These experimental data will be very useful for these models to be used for model evaluation.

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