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Comment

***Interactive comment on* “Exchange of reactive nitrogen compounds: concentrations and fluxes of total ammonium and total nitrate above a spruce forest canopy” by V. Wolff et al.**

Anonymous Referee #1

Received and published: 31 December 2009

The paper is generally well written. It deals with the dry deposition of nitrogen compounds during one month in a German forest.

The introduction could be shortened somewhat, leaving out information on subjects that are less relevant such as throughfall.

p. 8. The precision of the measurements was investigated. It would be useful here to give some results and not only refer to another paper.

p. 11. There should be given some reasons if possible for the observed variations (apart from a list of processes).

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p.12 It should be documented how the Damköhler number is calculated, especially the characteristic equilibrium time and the underlying assumptions about the particle size.

p. 17 and following. I do not think the measurements for September should be used to make a (highly uncertain) estimate for a whole year and compare it with other estimates. There are too few measurements to do this. For that reason Fig. 8 should also be left out.

Interactive comment on Biogeosciences Discuss., 6, 10663, 2009.

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6, C3773–C3774, 2009

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