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Biogeosciences Discussions

Interactive comment on "CO₂ enrichment increases nutrient leaching from model forest ecosystems in subtropical China" *by* J. X. Liu et al.

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I have gone through the manuscript with great interest since this ms has attracted my attention in my core research interest and expertise area. Overall, there have been very limited publications / studies on the impacts of rising CO2 concentration and N deposition on soil-plant processes in tropical and subtropical ecossytems, with most of the relevant publications focusing on the temperate and boreal forests. This ms has presented the welcome addition of the valuable information on the short-term impacts of elevated CO2 and N depositions in a subtropical forest ecosystem of China, a very fast growing economical zone with repid industrilization. In addition to taking on the

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challenges of global climate change with rising CO2 and warming, acid deposition with high loads of N deposition presents another compounding challenge of managing forest ecosystems in these areas. The ms has reported some quite interesting and novel research findings about the effect of high atmospheric CO2 concentration and N deposition rate on the dynamics of mineral nutrients, particularily on the nutrient leaching losses in the model forest of subtropical China. The ms is generally well written and should be published as soon as possible. It would also be very important that this interesting research could be continued to assess the longer term impacts on the soil - plant processes. I would like to congratulate on the high quality research publication submitted by the Chinese colleagues to this well suited journal.

Interactive comment on Biogeosciences Discuss., 5, 2679, 2008.