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Interactive comment on "Assessing biogeochemical effects and best management practice for a wheat–maize cropping system using the DNDC model" *by* F. Cui et al.

Anonymous Referee #3

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It is an important way to get BMP using model simulation method. DNDC model is a more developed model and the important support of amount of data in this study not only providing condition for validation of the model, but also increasing the reliability and credibility of the simulation results. Some good results such as the reduction of fertilizer on the basis of maintaining crop yield and the reliable fertilizer threshold will supply good guidance for BMP improvement. However, it is very difficult to establish a BMP in large scale even though there is well-functional model exist. A great amount of data is needed urgently and a lot of time is required for data collection. So it is a very good attempt to use DNDC model to identify a BMP for the wheat-maize cropping system in China and more research work should be done in other more different ecosystems.

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Interactive comment on Biogeosciences Discuss., 10, 8561, 2013.