

Interactive comment on “Modeling nitrogen loading in a small watershed in Southwest China using a DNDC model with hydrological enhancements” by J. Deng et al.

Anonymous Referee #1

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General comments This MS validates the enhanced DNDC model (with added hydrological features) described in Deng et al. (2011) against measured data from a watershed. The addition of the ability to account for lateral flows represents a significant advance in the widely used DNDC model, and therefore the testing of the model performance at watershed scale will be of interest to researchers in this area. In general the MS is well-written and logically structured. There are only a couple of minor corrections needed as described below.

Specific comments * Table 2: The caption should state that these are modelled rather than measured values * Figures 3 and 4: it would be helpful to mark on these graphs

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which data was used for calibration and where the validation data begins. Also, for time series that span more than one year it would be more useful to show month and year on the x-axis rather than month and day

Technical correction * There are two papers listed as Zhu et al. 2006 in the references. These should be labelled Zhu et al. 2006a and Zhu et al. 2006b

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