

PROJECT INFORMATION

Project title: Modeling dissolved organic carbon in forest soils using a TRIPLEX-DOC model

Project ID: 68

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PROJECT DESCRIPTION

The soil DOC fluxes can be simulated by the TRIPLEX-DOC model. The changes in atmosphere N and S deposition has potential effects on soil DOC fluxes.

The dissolved organic carbon (DOC) leaching in soils plays an important role in global C cycle. Here, we want to simulate the DOC fluxes in forests soils using TRIPLEX-DOC (Wu et al., 2014, Geosci. Model Dev.), a new process-based model, aiming at (1) validate the performance of this model in predicting DOC fluxes , (2) improve the TRIPLEX-DOC model by adding a sub-block of atmosphere N and S deposition, and (3) discuss the potential effects of climate change on DOC fluxes in forest ecosystems.

A process-based model of TRIPLEX-DOC, which is reported by Wu et al.(2014).