

PROJECT INFORMATION

Project title: Regionalization of dissolved carbon leaching from soils based on empirical relationships between soil properties and soil water dynamics

Project ID: 4

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PROJECT DESCRIPTION

The global leaching flux of dissolved inorganic and organic carbon (DIC) is estimated to be $-19\text{gm}^2\text{yr}^{-1}$, Siemens et al. (2011). The flux is mapped over a region in North Europe. It is derived by combining existing global maps of groundwater recharge, soil water pH and average temperature with some major hydrological soil characteristics. Key is a regression found by Jan Siemens, University Bonn, that gives a prognosis of soil vapor pCO_2 . The data input relies on ICP Forests data base map. Temporal analysis is done using the climate model Lund-Jena-Potsdam-managed-Land.