

Sommersemester 2010

Gebäude GEO I
Hörsaal H6

BayCEER Kolloquium

Vortragsreihe Ökologie und Umweltforschung

Donnerstag 10.06.2010, 16:15 Uhr, H6

Anschließend Postkolloquium mit Bier und Brezeln im Foyer H6

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Matter transformation processes in fens and conclusions for their restoration under special consideration of nature conservation and water management

Natural peatlands are important sinks for atmospheric Carbon and nutrients and are characterized by a specialized flora and fauna. Peatlands store - bound in the soil - about 20-40 % of global Carbon. This original storage function was lost due to drainage activities and agricultural land-use. On the contrary, peatlands appear nowadays as ecosystems polluting the atmosphere and the surface waters with CO₂, CH₄, and nutrients. Many species of the flora and fauna typical for wetlands are endangered or already extinct regionally. Therefore, a re-wetting of peatlands is an urgent challenge and will be performed in large areas in Northern Germany. The re-establishment of the original ecological functions is a challenging process since strong changes of soil chemistry and soil physics took place during desiccation. In this presentation, problems and management strategies of peatland re-wetting under special consideration of nature conservation and water quality of adjacent surface waters will be discussed.

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