



UFZ-Seminar „Wasser und Umwelt“

19. Dezember 2011, 10.30Uhr

Saal, Brückstr. 3a, Magdeburg

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spricht zum Thema:

Can terrestrial carbon affect the resilience of shallow lakes?

Regime shifts in shallow lakes and subsidy of allochthonous C to lakes are two fundamental yet unrelated ecological concepts that have recently gained major attention. In TERRALAC, an interdisciplinary project started in 2010, we aim at combining these concepts by exploring the influence of particulate organic carbon (C) fluxes from terrestrial catchments on food webs of clear and turbid shallow lake ecosystems. First, we hypothesize that terrestrial organic C subsidizes the food webs of clear shallow lakes more strongly than that of turbid lakes at comparable primary production. Second, we predict that terrestrial organic matter input may affect the resilience of the clear-water regime via different pathways. We conducted a large-scale experiment manipulating the terrestrial C flux by maize addition into a divided clear and a divided turbid shallow lake. First results of the effects of this manipulation on all food web levels will be presented and discussed.

Falls Sie eine Videoübertragung nach Halle oder Leipzig gewünscht wird, bitte ich um eine E-Mail an hella.nietsch@ufz.de bis spätestens Freitag (16.12.), 12:00Uhr.