



UFZ-Seminar „Wasser und Umwelt“



December 18th, 2012, 11.00 am

Saal, Brückstr. 3a, Magdeburg

Rafeal Marcé, Catalan Institute for Water Research (ICRA), Girona, Spain

Reservoirs under the sun: biogeochemistry in the Mediterranean to identify patterns at the global scale“

The role of lacustrine systems in the global carbon cycle is a major topic in freshwater research. Most lakes release inorganic carbon to the atmosphere owing to the imbalance of net metabolism toward respiration. However, most research on this topic relies on data collected in natural low alkalinity lakes from North-temperate latitudes and reservoirs from the Tropics, and it therefore remains unclear what role human made calcareous lakes located in arid and semi-arid regions play in the current paradigm. In this talk we will discuss how this bias in the current literature may affect our comprehension of the processes that drive carbon dynamics in freshwaters at the global scale, using data collected mainly in reservoirs located in semi-arid regions. I will try to persuade you that some classical, well-known cause-effect relationships (nutrient load vs hypolimnetic anoxia development, net heterotrophy vs CO₂ emission) are not as universal as usually assumed.

Falls eine Videoübertragung nach Halle oder Leipzig gewünscht wird, bitte ich um eine E-Mail an nina.baumbach@ufz.de bis spätestens Freitag (14.12.), 12:00Uhr.