



UFZ-Seminar „Water and Environment“

17 April, 3 pm

Seminar Room 1, Brückstr. 3a, Magdeburg or

<https://ufz-de.zoom.us/j/6831992537?pwd=VXZFSmF3ZDZ3ckJ0dEUxNUQzSHR6QT09>

Alexander Wacker,

University of Greifswald, Zoological Institute and Museum, Dept. Animal Ecology
will give a talk on

Performance of plankton organisms in changing and variable environments

Spatiotemporal heterogeneity of the environment is critical for individual performance, population growth, interactions among populations, and thus community structure. To date, most studies consider only the influences of changes in the average of single environmental factors, such as temperature, rather than considering (1) that changes are not just shifts in the mean, but are actually fluctuations, and (2) that these changes and fluctuations can occur in more than one environmental factor/dimension simultaneously. Using a fruitful interplay of field work, laboratory experiments, and modeling, I will present some examples in which we have examined how physiological and biochemical characteristics of planktonic organisms depend on environmental variance beyond changes in their mean, for example, in temperature and co-limiting nutrients.