

EINLADUNG

Kolloquium Sommersemester 2024

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hält am Dienstag, den **14.05.2024**, um 16:15 Uhr im Hörsaal 1, Biologikum, Campus Riedberg, Max-von-Laue-Str. 13, einen Vortrag über,
„Climate change, low flow and fish kills in rivers“



Climate change will raise the number of hydrologic extremes resulting in shorter flood peaks and longer drought periods. Regulated rivers have lost most of their resilience against climate change impacts and are particularly prone to long-lasting droughts and landscape dewatering. Extended low flows will significantly modify physical and chemical water characteristics paving the way for compound effects and novel impacts. In the River Oder such compound impact of low water, high temperature and saltwater discharges resulted in a bloom of the brackish water alga *Prymnesium parvum*, which at densities above 100 million cells per liter this haptophyte had caused an unprecedented catastrophic fish kill with approximately 1000 tons of dead fish. I will use a resilience approach to assess the impact on and the recovery potential of the fish population to provide guidance for preventing future catastrophes and to generally enhance rivers resilience against climate change impacts.



Annual freshwater abstraction by source
(%, in 2015)

Lakes	1
Artificial reservoirs	10
Groundwater	24
Rivers	65

Seasonal (million m³, in 2015)

