
EINLADUNG

Kolloquium
Sommersemester 2022

Prof. Dr. Christiane Zarfl

Environmental System Analysis
University of Tübingen

hält am Dienstag, den **31.05.2022**, um 16:15 Uhr, im Hörsaal 1 des Biologicums, einen Vortrag über

„How much, how good? The diversity of challenges in river science and management“



Rivers are unique indispensable ecosystems in the water cycle and are much more than water. They transport sediments and nutrients, transform natural compounds, and provide a diversity of habitats and shelter for organisms from the micro to the macro scale. Even though freshwaters cover less than 1% of the Earth's surface, they accommodate about one third of known vertebrates and almost half of the classified fish species (He et al. 2019). Humans benefit from using rivers as transportation route, water resource for irrigation purposes and drinking water, as resource for food, but also for producing electricity and dumping

waste. Thus, many large cities often developed within the floodplains of rivers, fragmenting them in all dimensions by infrastructure development, like by dams, levees, bridges, diversion schemes, but also by thermal and chemical pollution. The presentation will focus on these multiple stressors on rivers across different scales, describe and quantify processes and give an outlook on future developments and research needs.

Einladender: Prof. Dr. Henner Hollert
