

Geowissenschaftliches Kolloquium

The role of extreme events in bedrock river erosion

Donnerstag, 27. Juni 2019 - 16.15 Uhr

Kristen Cook
GFZ Potsdam



To relate climate and tectonics to the development of rivers and landscapes, it's important to understand the effects of different types of tectonic and climatic forcing. We use a range of field-based monitoring techniques to explore how rivers in Taiwan and Nepal respond to events

of various types. Our observations illustrate that extreme events or perturbations such as coseismic uplift, typhoon floods, and glacial lake outburst floods can dominate bedrock erosion in these very active settings.



Dr. Kristen Cook is a geomorphologist at the GFZ Potsdam who works on fluvial processes, erosion and landscape evolution in mountain areas. After completing her PhD at MIT in 2008, she worked at National Taiwan University before moving to the GFZ in 2013.

Layout: FUB GeoPal Vanessa Skiba, 20190620

Institut für Geologische Wissenschaften

Großer Hörsaal (C.011), Haus C
Malteserstrasse 74-100
12249 Berlin



www.geo.fu-berlin.de/geol/kolloquium