

## Institut für Wasser und Umwelt

Fachbereich Wasserbau und Wasserwirtschaft Prof. Dr. Mário Franca

## Lecture

## **Landscape and River Morphology**

(LV-Nr. 6222805)

Lecturer: Prof. Dr. Mário Franca

Time: Monday, 09:45 to 11:15

Place: Building: 10.83 (L+E) Room: 001/ SR IWU (L+E)

Is offered in: Summer Term

## Content:

The study of morphological processes at landscape and river scales reveals the intricate mechanisms driving the evolution of river systems. By examining singularities such as confluences, bifurcations, and bends, as well as the impacts of climate change, students gain insight into the dynamic interactions shaping river corridors. They learn to identify key hydro-morphodynamic processes relevant to river systems and apply this knowledge in engineering practice, facilitating informed decision-making for sustainable river management.





Fig. 1: Left: River Tagliamento in the italian Alps (Source: worldrivers.net). Right: meanders at the Amazon River (Source: Smart Water Magazine).





Fig. 2: Left: River catchment (Source: guidance.miningwithprinciples.com). Right: three rivers confluence at Passau, Germany (Source: www.bayern.by)