Tropical Stream Fish Community Ecology

Summer course for Master’s programme
Elective course on ‘Tropical stream fish community ecology’
Institute of Hydrology and aquatic Ecosystem Management
University of Natural Resources and Life Sciences (BOKU)
Vienna, Austria

Guest Professor
Dr. J.A. Johnson
Scientist-E
Wildlife Institute of India
Dehradun, India
jaj@wii.gov.in
jajohnson@boku.ac.in
https://www.wii.gov.in/ja_johnson
Course content

- **Freshwater fishes of India (Date 25 May 2021; 9.0 – 12.0 hrs CET):** it covers major biogeographic zones of India; Fish communities in Biodiversity hotspots (Himalaya, Eastern Himalaya & Western Ghats) and important game fishes of India; Ecology of glacier-fed and rain-fed streams – **this session has both lecture based.**

- **Tropical Stream fish ecology with special reference to species-habitat relationship (Date 25 May 2021; 14.0 – 17.0 hrs CET):** it describes properties of tropical streams; different types habitats (macro, meso & microhabitats); Habitat utilization coefficient and microhabitat use by cyprinid fish and evaluating habitat suitable criteria curves – **this session is more of lecture based.**

- **Food and feeding ecology of tropical fish community (Date 26 May 2021; 9.0 – 12.0 hrs CET) –** It covers type of food resource available in tropical streams; principle feeding groups; feeding niche and food partitioning – **this session has both lecture and students interactive exercise.**

- **Human-made impacts on Indian rivers (Date 27 May 2021; 9.0 – 12.0 hrs CET):** it describes impacts of different types of human-induced alteration such as hydropower development, mining, habitat alteration, riparian removal, introduction of exotic/invasive species and pollution – **this session has both lecture and students interactive exercise.**

- **Conservation of threatened aquatic wildlife with case studies (Date 28 May 2021; 9.0 – 12.0 hrs CET):** it explains introduction to major aquatic wildlife of India, their habitat and ecology; case study on applicability of environmental flow estimation methods for conserving aquatic species and their habitats – **this session is more of lecture based, but at the end of the session we will have interactions.**