

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
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Guest Professor

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भारतीय वन्यजीव संस्थान
Wildlife Institute of India

Ministry of Environment Forests & Climate Change



Universität für
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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.**