

RESEARCH SEMINAR

DEPARTMENT OF GEOGRAPHY AND RESOURCE MANAGEMENT
THE CHINESE UNIVERSITY OF HONG KONG

27 Oct 2022 (Thurs)
4:30–6:00 pm (UTC+8)

Salt marshes, mangroves and the climate crisis

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Restoration of salt marshes and mangroves contributes to climate change adaptation and mitigation as a Nature-based Solution. Yet, there are limits to intertidal wetland resilience in a changing climate. Restoration and management activities need to take the bio-physical interactions between plants and the ever-changing abiotic processes into account in order to better predict future habitat extent and permanence of ecosystem services. In this seminar, I will conceptualize temperate and tropical coastal wetland dynamics, biogeomorphic feedbacks and ecosystem functions with relevance to ecosystem services delivery. New low-cost tools, based on accelerometer technology, to assess changing external forcing will be introduced. Finally, I will summarize the opportunities and limitations to how coastal habitats can help to tackle climate change.

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Thorsten holds a Diploma in Geography from the Hannover University, Germany and a PhD from the University of Nijmegen, The Netherlands. He was a visiting researcher at the National University of Singapore and previously worked at the University of Oldenburg, Germany, at Deltares, The Netherlands and at the Royal Institute for Sea Research, The Netherlands, before joining the faculty at Glasgow University in 2016. His research focuses on biogeomorphology, coastal wetland ecology and Nature-based Solutions.



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