

ZAC4 Program

The conference will take place at the Large Seminar Room in F6

Session Program Area 4: Knowledge Systems and Ecosystem Design

Chairs: Marie Fujitani & Hauke Reuter

9:00	KATRINA - Kalimantan Aquaculture and Integrated Mangrove Rehabilitation <i>Karl Schrader</i>	PA4
09:15	The politics of knowledge use in wastewater management – a systematic literature review <i>Roald Leeuwerik</i>	
09:30	Understanding stakeholders' perceptions of tourism-generated wastewater in San Andres, Colombia <i>Connie Kwong</i>	
09:45	A Sea of Connections - Valuing Reef Passages in the South Pacific Region <i>Annette Breckwoldt</i>	
10:00	When our small world models meet the wickedness of the world <i>Fridolin Haag</i>	

10:15-10:45	Coffee Break (please bring your own cup)	30 min
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Session Creative Practice: A tool in coastal and ocean sustainability research?

Chairs: Marion Glaser & Annette Breckwoldt

10:45	Evaluation of a creative practice intervention in Brazil <i>Lena Knopp</i>	Creative Practice
11:00	First experiences with, and lessons for Creative Practice Interventions in Ocean sustainability research <i>Marion Glaser</i>	
11:15	“Draw the sea...”: Children’s representations of ocean connectivity in Fiji and New Caledonia <i>Elodie Fache</i>	

Session Program Area 3: Coastal Development and Hinterland Dynamics

Chairs: Tim Jennerjahn & Jewel Das

11:30 Inventorizing dense mangrove forest canopies using instance and semantic segmentation networks on UAV imagery

Daniel Schürholz

PA3

Workshop: The societal impact of ZMT's work

Chairs: Sebastian Ferse, Achim Schlüter & Rebecca Lahl

11:45 – 12:45

Workshop

12:45 - 13:45

Lunch Break at the Poster exhibition

60min

Please bring your own lunch so you can easily combine eating, chatting with colleagues and preview posters

Session Program Area 1: Towards sustainability in managing aquatic resources:
Multiple management approaches for complex social-ecological systems

Chairs: Rifki Furqan, Hudu Banikoi & Michael Kriegl

13:45 Integrated Monitoring of Fish Abundance using Combined Tools (IMFACT) & Managing sustainable sea URchin fishery and marine FORest conservation (MUrFor)

Giovanni Romagnoni

PA1

14:00 Enzymatic capacity of copepod *Apocyclops panamensis* to biosynthesis of PUFA

Sofia Afoncheva

14:15 Mapping stakeholders and their discourses using Social Network Analysis and Q methodology: An investigation of sea turtle management in Sri Lanka

Maheshwaran Govender

14:30 Spatio-temporal diversity in German brown shrimp fishery

Serra Örey

14:45 Current trends and suggested future directions in coral transplantation for reef restoration

Sebastian Ferse

15:00-15:30 **Coffee Break** (please bring your own cup)

30 min

Session Blue Carbon

Chairs: Tim Rixen & Martin Zimmer

15:30 Coastal carbon sinks – more than just 'Blue Carbon'

Tim Jennerjahn

Blue
Carbon

15:45 Past changes in and present status of the coastal carbon cycle

Tim Rixen

Session Program Area 2: Global Change Impacts and Social-ecological Responses

Chairs: Subhendu Chakraborty & Nicolas Da Silva

16:00 A global dataset of coastal permeability and other attributes

Nils Moosdorf

PA2

Session Program Area 5: Ocean literacy, ocean equity and blue leadership

Chairs: Rebecca Lahl & Achim Meyer

16:15 Participatory monitoring, assessment and visualization of climate change vulnerability in coastal wetlands of Peru for decision-making in ecosystem-based adaptation

Hanlie Malherbe

PA5

16:30 Capacity building in biodiversity research by ZMT

Achim Meyer

16:45 Transforming co-design science for practice: lessons learned from a training course on Co-design for the Ocean Decade

Jialin Zhang

Poster Session

Foyer Fahrenheitstrasse 6

17:00 - *Cretus Mtonga:* Application of the environmental DNA (eDNA) technique in monitoring of Tanzanian fishes
18:00

PA1

Khishma Modoosoodun Nicolas: Scalable analysis of shallow coral reef habitats using Artificial Intelligence

Pradipta Das Using oxygen measurements as a tool to study photo-physiological capacities in endosymbiotic jellyfish (*Cassiopea andromeda*)

Aaron Cordes: Integration of *Babylonia areolata* into existing tidal ponds for the cultivation of *Caulerpa lentillifera*

Beatrice Brix da Costa: Potential to integrate the economically important gastropod *Babylonia areolata* in pond cultures of *Caulerpa lentillifera*

Rima Beesoo: Jellyfish *Cassiopea andromeda*: A treasure trove of pharmacologically active compounds

Munawar Khalil: Physiological effects of combined ocean acidification and warming on asterinid starfish

PA 2

Sara Nazari: Global groundwater recharge assessment over the last two decades

Juan Molina: Thermal resilience of *Halobatrachus didactylus*

Jan Härter: Precipitation resonance for an idealized model ITCZ

Aitana Gea Neuhaus: Do seabird-derived nutrient subsidies influence the composition of reef-derived carbonate sediments in the Chagos Archipelago?

PA3

Nancy A. Oduor: Anthropogenic nutrients and phytoplankton diversity metrics to assess coastal water quality in Kenya

18:00 End of ZAC4