

# Water Week

## Blue Carbon, Plastic Litter and Technology for Circular Economy

From 26th February until 1st March 2024

**Lecturer:** Prof. Dr. Mitsuo Yamamoto

IPADS (International Program in Agricultural Development Studies), The University of Tokyo

This **5- day course** for doctoral and Master's students of the University of Bonn covers principles and topics related to marine environmental sciences important for achieving the Sustainable Development Goals (SDG), especially SDG 14: "Conservation and sustainable use of oceans and related goals". This intensive water week introduces current research projects related to **blue carbon** and **marine plastic litter** achieving a circular economy in the world.

The course is led by **Prof. Dr. Mitsuo Yamamoto**, director of IPADS (International Program in Agricultural Development Studies) at The University of Tokyo and environmental scientist in the areas of aquatic environmental chemistry and environmental chemical engineering. The Center for Development Research (ZEF) and IPADS look back on years of student and teaching exchange. This workshop is part of a series offering marine environment topics at ZEF.



### Course Schedule

<b>Course period:</b>	<b>26<sup>th</sup> of February until 1<sup>st</sup> of March 2024, 10.00 a.m. – 4:00 p.m. including breaks</b>
<b>Day 1 (26<sup>th</sup> of February):</b>	Course introduction and overview of blue carbon based on a UNEP report and previous studies.
<b>Day 2 (27<sup>th</sup> of February):</b>	Potential of coastal conservation and blue carbon for contributing to net carbon fixation. Introduction of a current research project for seaweed bed restoration closely related to fisheries industries.

- Day 3 (28<sup>th</sup> of February):** Overview of marine plastic litter issue.
- Day 4 (29<sup>th</sup> of February):** Introduction of a current project for reducing plastic litter while achieving a circular economy: Utilization of agricultural wastes for producing plastic alternative materials.
- Day 5 (1<sup>st</sup> of March):** Group work on perspectives for conserving the marine environment worldwide. Finally, students will introduce their group work and discuss their findings.

## Organization

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University of Bonn  
Center for Development Research (ZEF)  
Bonn International Graduate School for Development Research (BIGS-DR)  
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**Venue:** Center for Development Research (ZEF), Genscherallee 3, 53113 Bonn, room 3032

### Target group:

The course is designed for doctoral students of *BIGS-DR* and *BIGS Land and Food* (University of Bonn), Master's students of *ARTS* (Agricultural Sciences and Resource Management in the Tropics and Subtropics, University of Bonn), *Geography of Environmental Risks and Human Security* (UNU-EHS) and (doctoral) students from programs being part of the *German Association of Postgraduate Programmes* (AGEP).

The number of participants is limited to 15.



**Please register/ apply here until the 15<sup>th</sup> of January 2024:**

<https://forms.gle/DFkAGjafR2xugPX1A>