

EXCURSION TO JAPAN

From 17th June until 25th June 2023

Coastal Ecosystem and Fishery Management

The linkage between Agriculture, Marine Environment, and Common Pool Resource Management

Bonn International Graduate School for Development Research (BIGS-DR) offers a 10-day excursion to Japan to learn about agricultural and environmental problems caused by agriculture close to the **marine environment**. Apart from that the group investigates **Common Pool Resource Management** regarding fisheries in Japan.

The excursion addresses BIGS-DR doctoral students from all disciplines located at the **Center for Development Research (ZEF)**/ University of Bonn (UBonn) and two **Graduate Schools** of the University of Tokyo (UTokyo). The group will visit Hokkaido (Japan) to gain inter- and intradisciplinary perspectives from researchers, fishermen, and companies in order to train students in problem-solving with many stakeholders. Lectures held by professors of ZEF (UBonn), the **International Program in Agricultural Development Studies IPADS** (UTokyo), and the **Graduate Program in Sustainability Science Global Leadership Initiative (GPSS-GLI | Graduate Program in Sustainability Science, UTokyo)** teach the participants during the excursion and enable a lively discussion of theories, observations, and findings in Hokkaido.

The **Seaweed bed restoration** following **eutrophication**, so-called barren ground, is a serious problem in the coastal areas of Japan and all over the world. One of the causes for the barren ground is elevated seawater temperature by global warming, grazing by sea urchins and fishes, and lack of nutrients from terrestrial areas. The IPADS research group has focused on the lack of iron and developed a seaweed bed restoration method with iron fertilizer. The students will visit the first field test area of this method in Mashike, in the northwestern part of Hokkaido, and observe the relationship between paddy fields and the coastal environment. Additionally, the students will conduct interviews with representatives of the fisheries cooperatives and the local government.

2. **Common Pool Resource Management:** Fisheries is considered to be one of the typical cases of Common Pool Resources, which often result in the “tragedy of commons”. To avoid this tragedy, the establishment of property rights was often argued as the only solution. However, Japan has had a strong tradition of co-management or community-based management without establishing private or state ownership. The lecture will focus on the role played by institutions, rules, and norms set by the Fisheries Cooperative Association to manage the fisheries in a sustainable manner using the theories from

institutional economics, especially that of E. Ostrom. Further, the students will be asked to conduct interviews and participant observations with the fishermen in the Fisheries Cooperative Association to understand the institutions set by these fishermen.

Contact in Bonn:

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Program

Saturday, June 17th: Flight Germany-Tokyo
Check-in: Hotel Kizankan

Sunday, June 18th: 113-0033 Präfektur Tokyo, Bunkyo-ku Hongo 4-37-20, Japan
8:50 a.m. Arrival at Tokyo Narita Airport

Monday, June 19th: University of Tokyo

Morning

Meeting with the Dean and executives of the Graduate School of Agricultural and Life Sciences

Lecture 1: "Waterborne Diseases in a One Health Context."

Prof. Dr. Christian Borgemeister, Director at Center for Development Research (ZEF), UBonn.

Afternoon

Lecture 2: "Agriculture, marine environments and conservation efforts"

Dr. Juliet Wanjiku Kamau, Senior researcher at ZEF, UBonn.

Lecture 3: "Coastal environmental conservation based on the linkage of land and sea".

Prof. Dr. Mitsuo Yamamoto, Director of the International Program in Agricultural Development Studies, UTokyo

Lecture 4: "Institutional Economics and the Management of Common Pool Resources: Fisheries in Japan".

Prof. Dr. Hiroe Ishihara, Professor at Global Leadership Initiative Graduate School, UTokyo

Tuesday, June 20th: 9:00 a.m. Flight Tokyo Haneda- Sapporo

- Lunch at a restaurant in Ishikari-city and visit at wind farm
- Arrival in Mashike at around 4:00 pm
- Check- In: Auberge Mashike, 217-1 Betsukari, Mashike-cho, Mashike-gun 077-0217 Hokkaido
- Dinner in Mashike

Wednesday, June 21st

Morning

Field visits in coastal areas and paddy fields in Mashike

Lunch in a local restaurant

Afternoon

- Lectures from Fisheries Cooperative and local government
- Group work: split up into two or three groups 1. Coastal environment (one or two groups) and 2. Fishery management (one group)

Evening: BBQ

Thursday, June 22nd

Morning

- Visit the orchard, historical buildings, and sake brewery
- Lunch
- Leave Mashike at 2:00 pm and arrive in Sapporo at around 5:00

Afternoon

- Check-In Hotel in Sapporo: Apa Hotel Sapporo Susukino Ekirinarni, 7-1-1 Minami 4-Jo Nishi, Chuo-Ku, Sapporo
64-0804 Hokkaido
- Evening and dinner: on your own

Friday, June 23rd:

- Check-out Apa Hotel Sapporo Susukino Ekirinarni
- Leisure time in Sapporo
- 5:00 p.m. Flight Sapporo- Tokyo Haneda

Evening: Check-In: Ueno First City Hotel, Tokyo

Ueno First Hotel, 110-0005 Präfektur Tokyo, Taito-ku Ueno 1-14-8 , Japan

Saturday, June 24th:

Insights and open questions, leisure time in Tokyo, and Goodbye.

Prof. Dr. Christian Borgemeister visits the Graduate School of Frontier Science

Sunday, June 25th:

Return flight to Germany