

The Autumn Meeting of the Oceanographic Society of Japan was held on September 24-28, 2023 at Yoshida Campus of Kyoto University, and Ms. DURAN GOEMZ Gloria Silvana, a graduate student of our university, gave an oral presentation and received the Young Scientist Outstanding Presentation Award. The JOS Fall Meeting had 60 oral presentations and 15 poster presentations by young researchers, and 5 of them were awarded the Young Scientist Outstanding Presentation Award.

The winners are

DURAN GOEMZ Gloria Silvana (Doctoral student (1st year), Department of Applied Marine Environmental Systems, Graduate School of Marine Science and Technology, TUMSAT)

Details of the awarded research

Title: "Effects of submesoscale eddies generated by the Kuroshio south of Yakushima Island on biological production in the downstream".

DURAN GOEMZ and her colleagues conducted several intensive field observations in the Tokara Strait in southern Kyushu, where the Kuroshio always flows over the seamounts and near the islands, and found that when the Kuroshio flows close to Yakushima Island, it creates a counterclockwise cold water eddy of about 10 km in diameter in the southern part of the island and that nutrient-rich water is upwelled in a tongue-like structure at the edge of the cyclonic eddies. This was reproduced by a high-resolution numerical simulation to clarify the effects on phytoplankton and zooplankton.

