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Spatial variation of nutrients and its controlling factors in the Hiuchi-Nada

Genki Hidaka¹, Shin-ichi Onodera², Mitsuyo Saito^{3*}, Guangzhe Jin², Koki Onishi², Masashi Yoshikawa², Yuta Shimizu²

¹Hiroshima Univ., ²Grad. School of Hiroshima Univ., ³JSPS PD, Ehime Univ.

In order to confirm the spatial variation of nutrients and its controlling factors in the enclosed coastal bay, seawater, river water, groundwater, and seafloor sediment were collected and analyzed nutrient properties in the Hiuchi-Nada, central part of Seto Inland Sea.

The results suggest that the supply sources of nutrients are different in the central, western and eastern part of the bay. The central area was significantly influenced by river water discharge, while the western area was possibly influenced by submarine groundwater discharge. On the other hands, nutrient dissolution from seafloor sediment would be the important source in the eastern area.