
Isao Kudo



Associate Professor

Division: Division of Marine Bioresource and Environmental Science

Chair: Marine Environmental Science

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Education History

- Bachelor of Fisheries, Hokkaido University in 1982
 - Doctor of Fisheries Science, Hokkaido University in 1987
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SUBJECT: Introduction to Oceanography, Chemical Oceanography

SPECIALITY: Marine Biogeochemistry, Coastal Environmental Science, Lower Trophic level production

CURRENT RESEARCH TOPICS:

Oligotrophication in a coastal environment: Oligotrophication, decreasing trend of nutrients was revealed in Mutsu bay, a semi-enclosed bay where intensive bivalve culture was carried out. Average nutrient concentration has decreased by one-third since 1970s when scallop culture was introduced to the bay. The causes for this oligotrophication were landings of scallop and the increase in deposition of scallop feces to the sediment surface, resulting in the removal of N and P from the bay.

SELECTED PUBLICATIONS:

1. Kakuta, E. and **Kudo, I.** (2016)

Significant contribution of lytic mortality to bacterial production and DOC cycles in Funka Bay, Japan.

Journal of Oceanography, in press, online. DOI: 10.1007/s10872-015-0316-2.

2. **Kudo, I.**, Hisatoku, T., Yoshimura, T. and Maita, Y. (2015)

Primary productivity and nitrogen assimilation with identifying the contribution of urea in Funka. Bay, Japan. *Estuarine, Coastal and Shelf Science*, **158**: 12-19.

3. **Kudo, I.**, Noiri, Y., Cochlan, W.P., Suzuki, K., Aramaki, T., Ono, T. and Nojiri, Y. (2009)

Primary productivity, bacterial productivity and nitrogen uptake in response to iron enrichment during the SEEDS II. *Deep-Sea Research II*, **56**: 2755-2766.