# YOSHIMURA, Takeshi

**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 1996
- Master of Fisheries, Hokkaido University in 1998
- Ph.D. in Fisheries Science, Hokkaido University in 2001

**SUBJECT:** Marine biogeochemical cycle of bioelements such as phosphorus, carbon, and nitrogen

**SPECIALITY:** Biogeochemistry, Chemical analysis, Phytoplankton incubation experiment

## CURRENT RESEARCH TOPICS:

1. Chemical fractionations of phosphorus in seawaters
2. Carbon cycle in brackish lake Obuchi, Aomori
3. Impacts of ocean acidification and warming on phytoplankton organic matter production
4. Development of reference materials to achieve higher quality chemical analyses

## SELECTED PUBLICATIONS:

1. Sugie, K., Yoshimura, T. (2016) Effects of high $CO_2$ levels on the ecophysiology of the diatom *Thalassiosira weissflogii* differ depending on the iron nutritional status. ICES Journal of Marine Science: Journal du Conseil 73:680–692.
2. Yoshimura, T., Nishioka, J., Ogawa, H., Kuma, K., Saito, H., Tsuda, A. (2014) Dissolved organic phosphorus production and decomposition during open ocean diatom blooms in the subarctic Pacific. Marine Chemistry 165:46–54.
3. Yoshimura, T., Sugie, K., Endo, H., Suzuki, K., Nishioka, J., Ono, T. (2014) Organic matter production response to $CO_2$ increase in open subarctic plankton communities: Comparison of six microcosm experiments under iron-limited and -enriched bloom conditions. Deep Sea Research I:94:1–14.
4. Yoshimura, T. (2013) Appropriate bottles for storing seawater samples for dissolved organic phosphorus (DOP) analysis: A step towards the development of DOP reference materials. Limnology and Oceanography: Methods 11:239–246.
5. Yoshimura, T., Suzuki, K., Kiyosawa, H., Ono, T., Hattori, H., Kuma, K., Nishioka, J. (2013) Impacts of elevated $CO_2$ on particulate and dissolved organic matter production: Microcosm experiments using iron deficient plankton communities in open subarctic waters. Journal of Oceanography 69:601–618.