

# Applications of chemical analyses for better understandings of pollution and biological productions in marine environments

Contact: Takashi Sakamaki (Associate Professor, [takashi.sakamaki.a5@tohoku.ac.jp](mailto:takashi.sakamaki.a5@tohoku.ac.jp))

Expected participants: 4 students (max)

Schedule: Sept. 12 — 16.

(Subject to change depending on schedules of participants and work progress)

The first meeting: 9am on Sept. 12 @ Aobayama Campus

F01 building (Civil Engineering & Architecture), Room #304.

Nutrients (N & P) are an essential resource for biological production in coastal marine systems, while their excessive inputs cause organic pollution. To protect marine ecosystems and sustainably maintain food production by fisheries, it is necessary to understand the dynamics of nutrients and organic matter in the marine systems and design sound management tactics. Various types of chemical analysis techniques are applied in marine environmental science. In this course, students experience some methodologies for field samplings, chemical measurements, data analyses, etc., and discuss marine environmental management.

