

YOKOTA LAB.

Underwater Real-time Informatics



Center for Integrated Underwater Observation Technology
Department of Mechanical and Biofunctional Systems

Underwater Information System
Department of Ocean Technology, Policy and Environment, Graduate School of Frontier Sciences

https://sgoi.iis.u-tokyo.ac.jp/index_e.html

Mail: yyokota@iis.u-tokyo.ac.jp

Underwater Information by Marine and Satellite Monitoring

Based on **underwater and satellite observation technology**, We develop **GNSS-A technology** and contribute to disaster prevention engineering, ocean monitoring, fisheries science and others. Our research aims to create new data and discovery of new usages, especially in real-time.

In cooperation with several institutes and researchers, we promote these research topics:

- ① Seafloor geodesy technology called **GNSS-A** & ocean application of GNSS
- ② Earthquake disaster prevention
- ③ Seafloor surveying technology
- ④ Realtime ocean monitoring technology using UAV

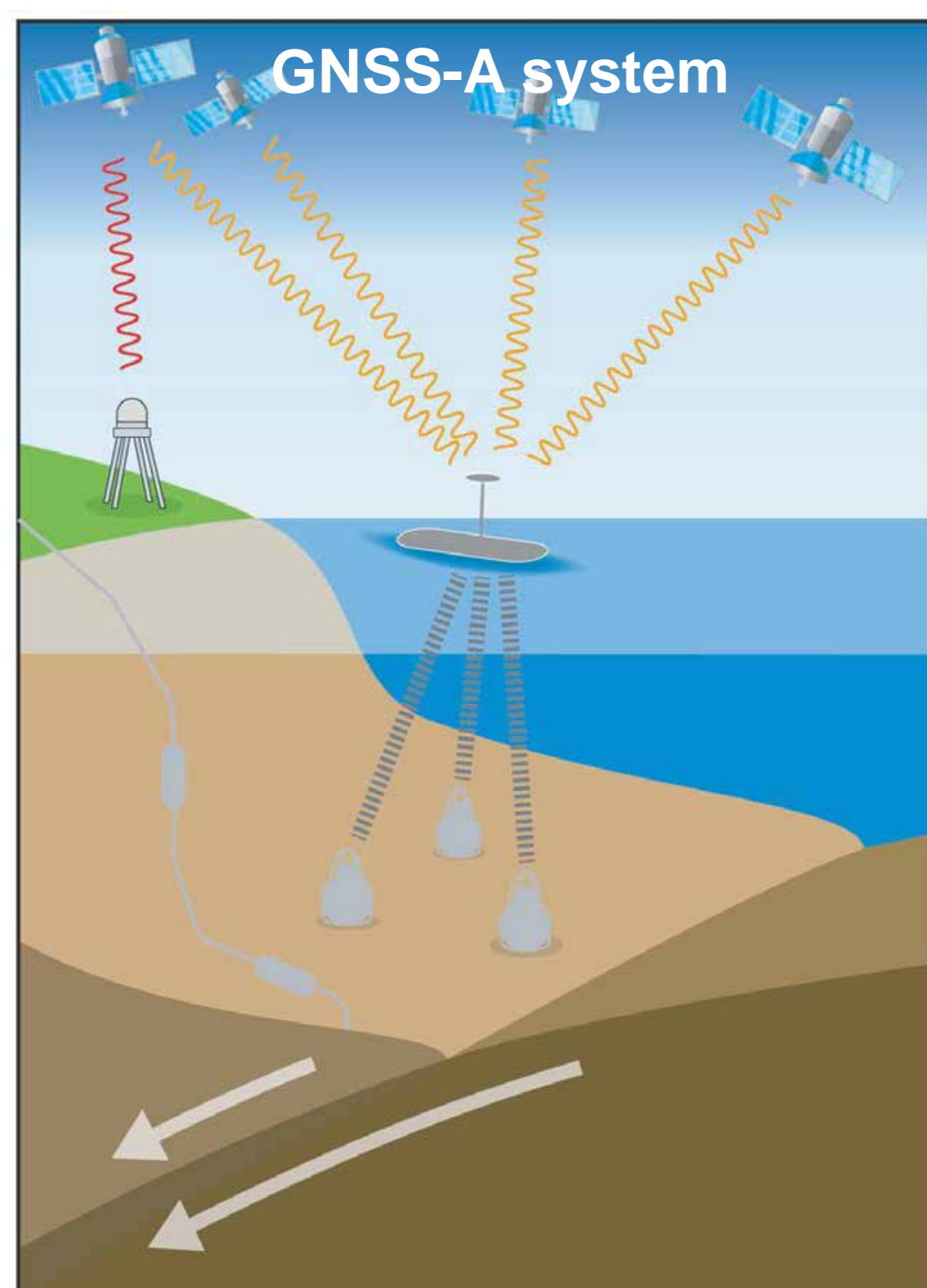


Fig1: GNSS-A system

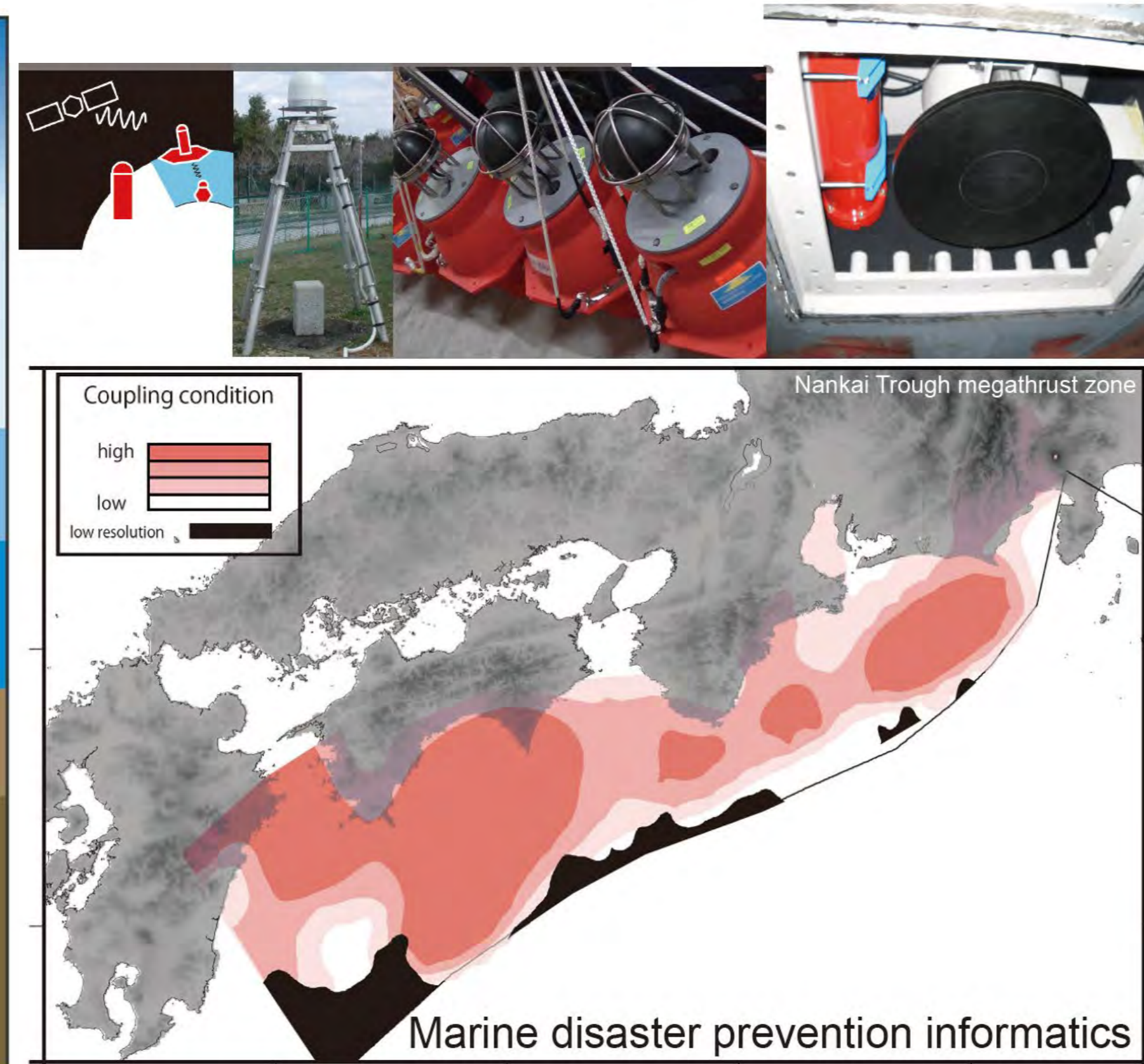


Fig2: Sensors & coupling condition along the Nankai Trough

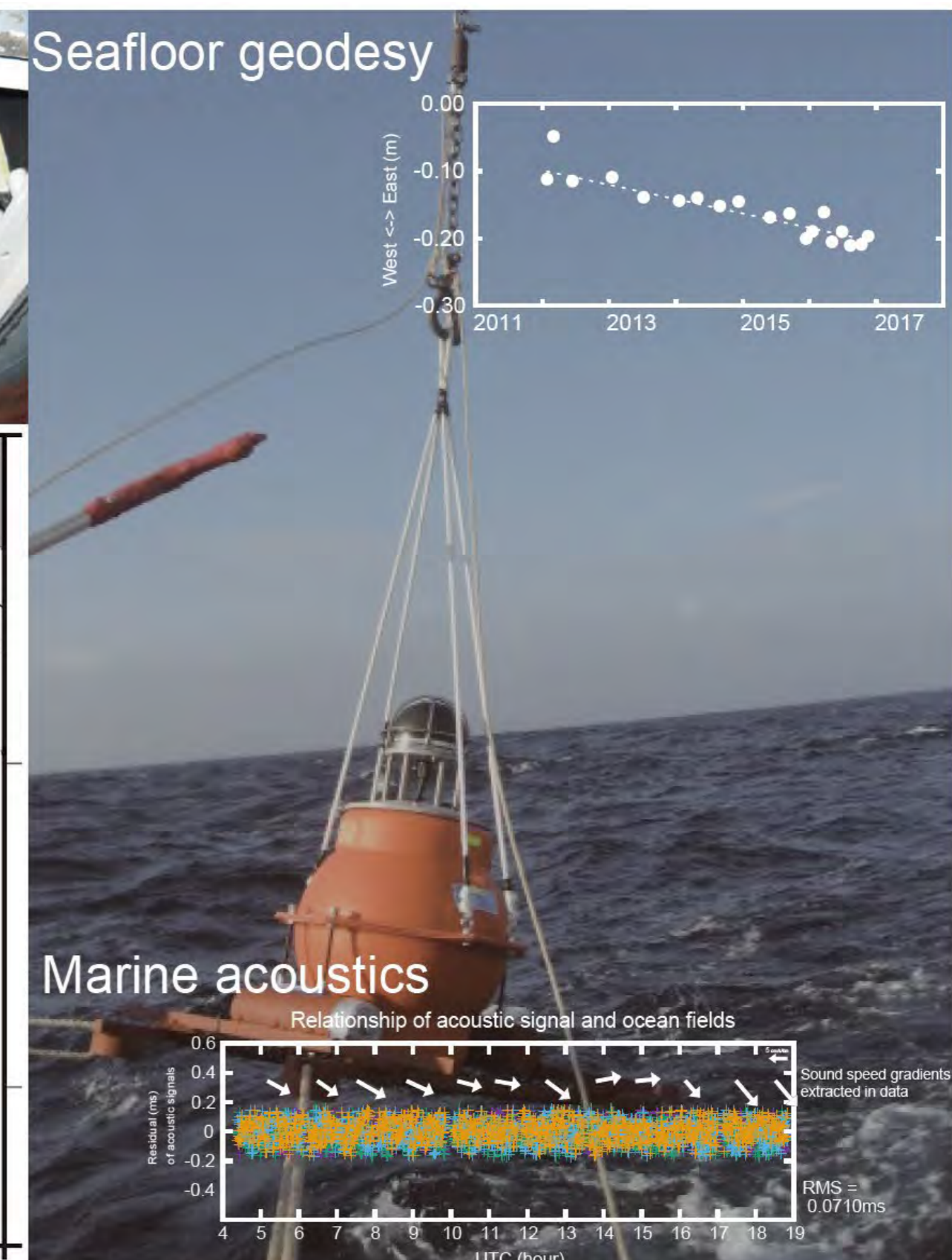


Fig3: Installation of GNSS-A transponder

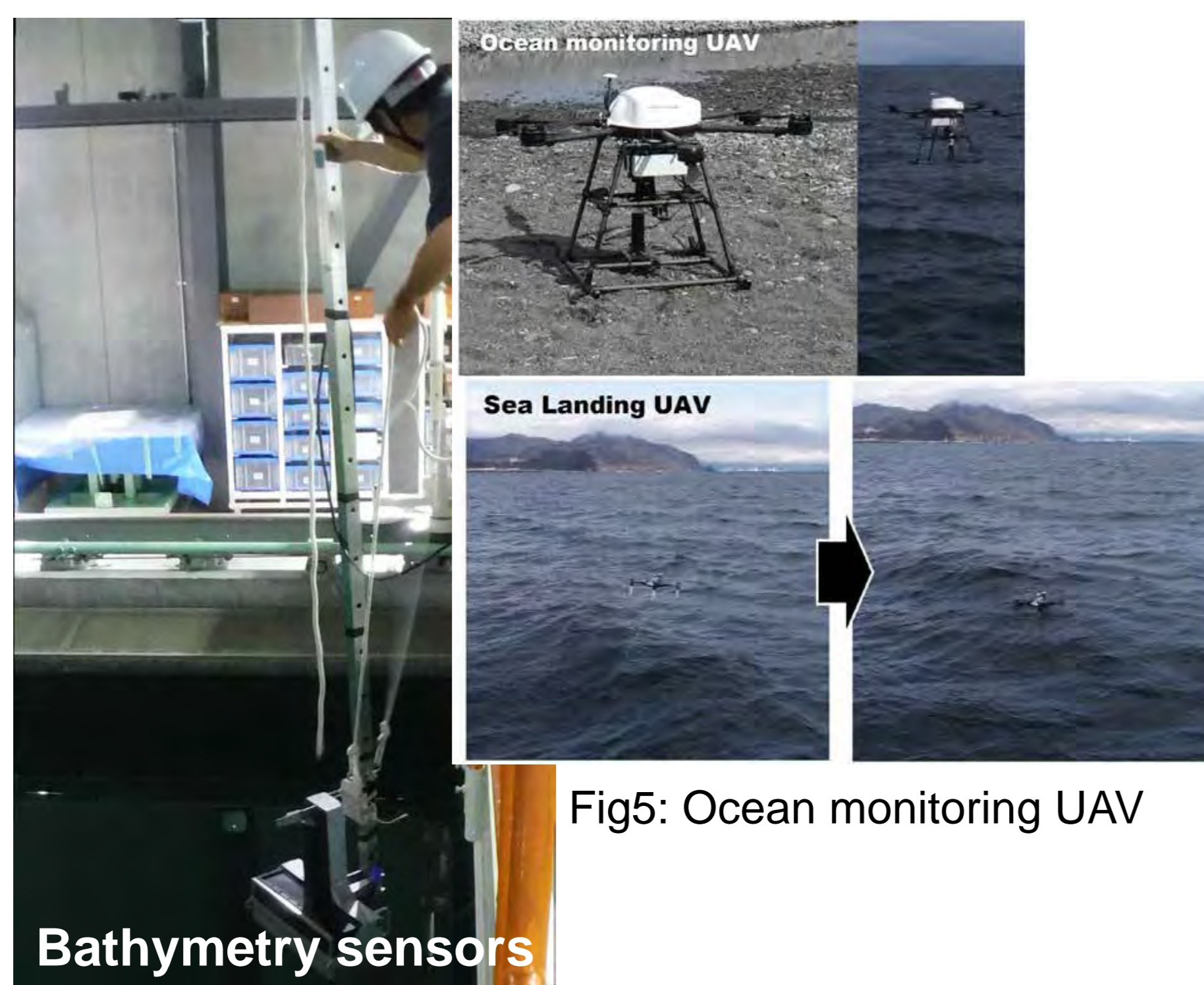


Fig4: Experiment of Multibeam-echosounder

Fig5: Ocean monitoring UAV



Fig6: Flight-boat UAV



Fig7: Satellite laser experiment