

YOKOTA LAB.

[Underwater Real-time Informatics]

Center for Integrated Underwater Observation Technology

Underwater Information System

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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

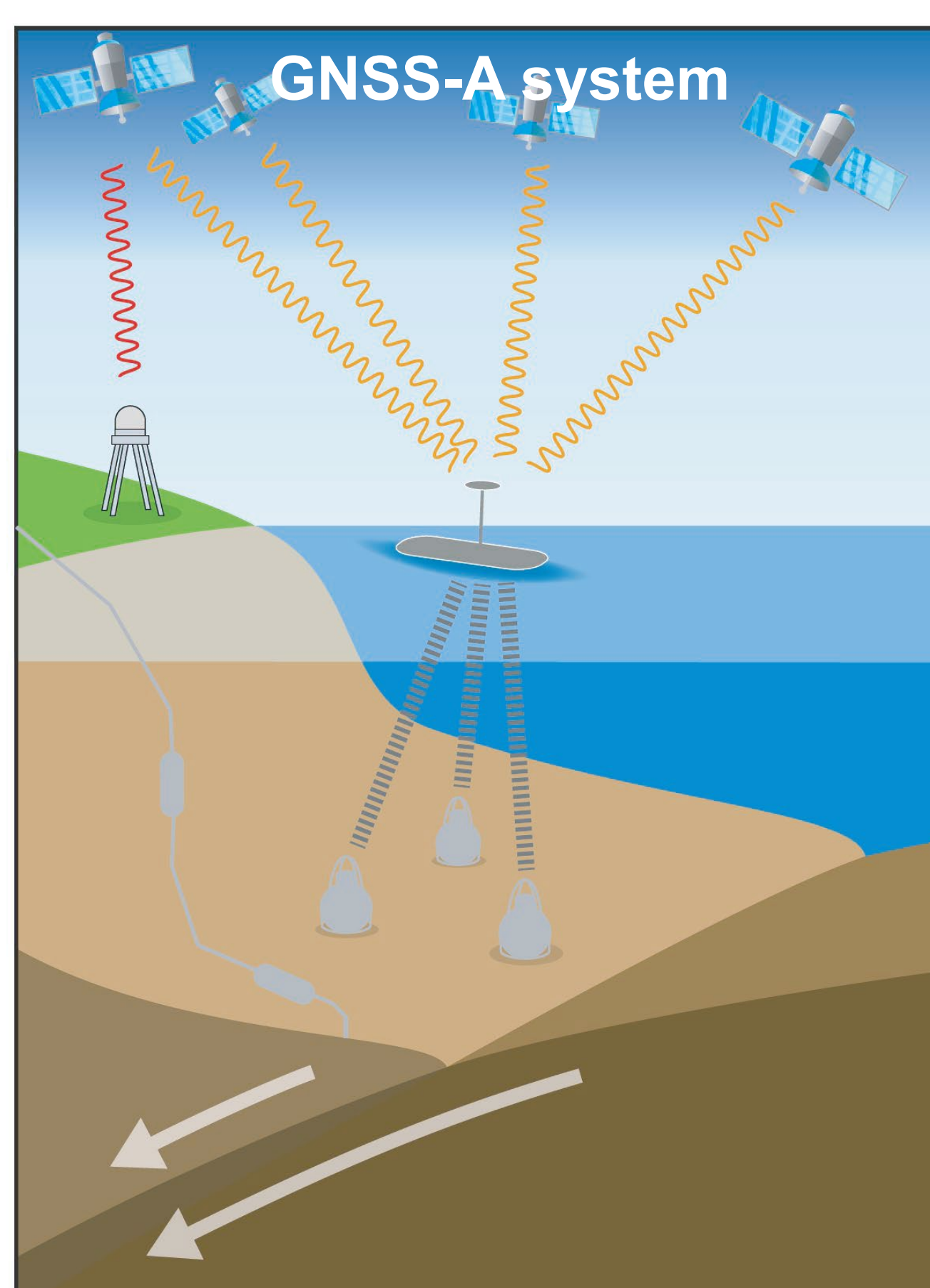


Fig1: GNSS-A system

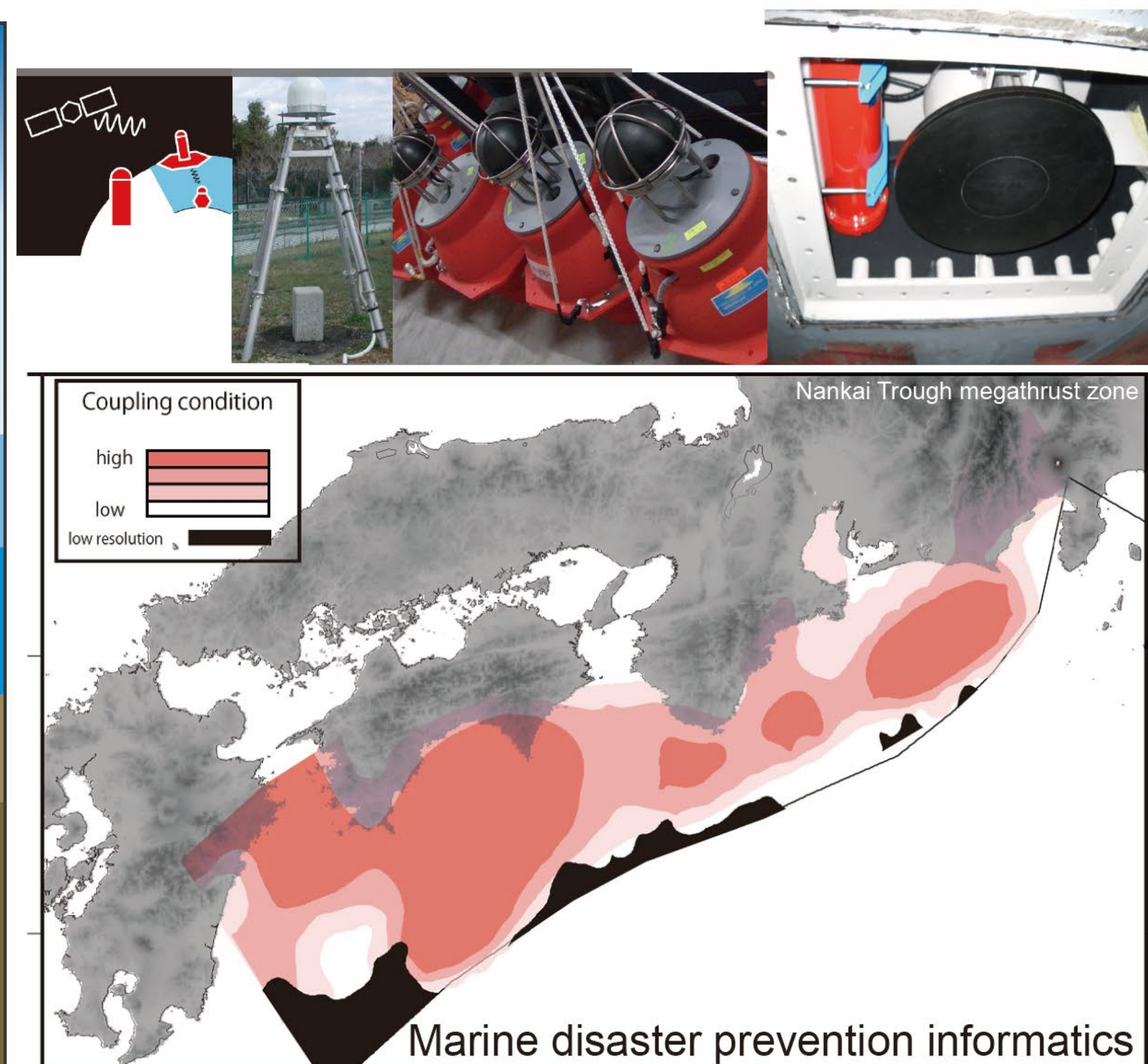


Fig2: Sensors & coupling condition along the Nankai Trough

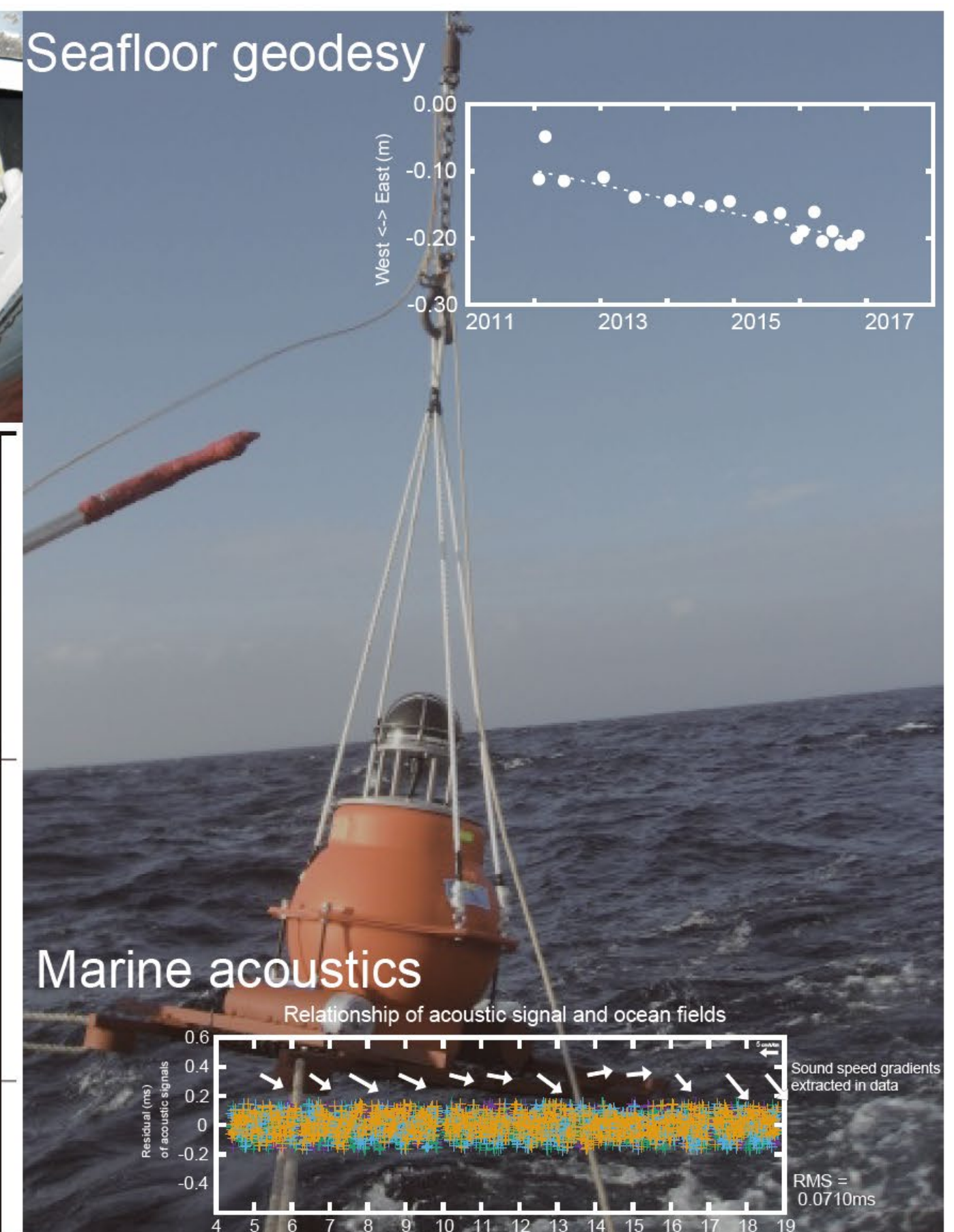


Fig3: Installation of GNSS-A transponder



Fig4: Experiment of Multibeam-echosounder

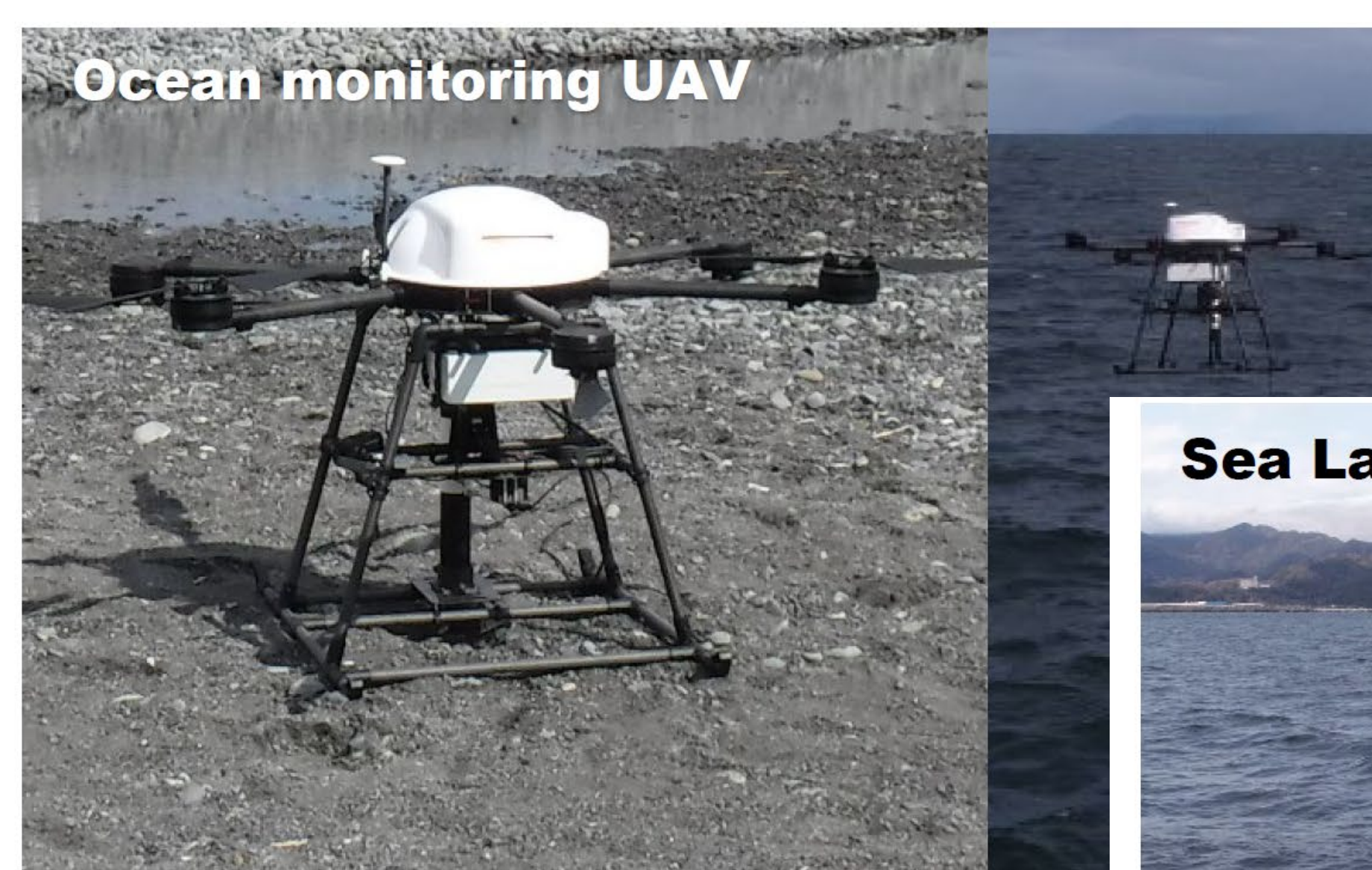


Fig5: Ocean monitoring UAV

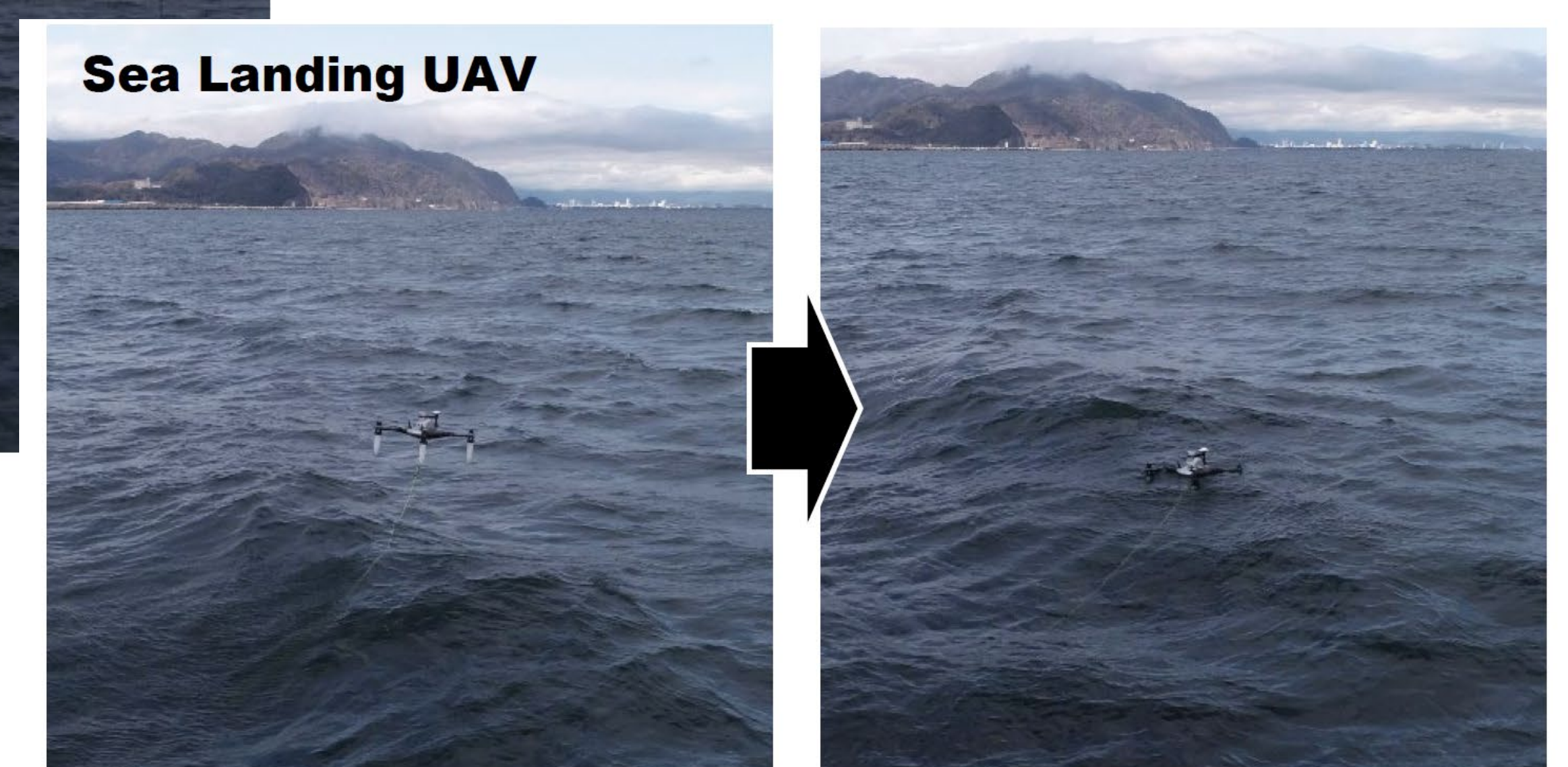


Fig6: Sea landing UAV