

MAKI LAB.

Light for the Sea, Adventures for the Robots!



Center for Integrated Underwater Observation Technology

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

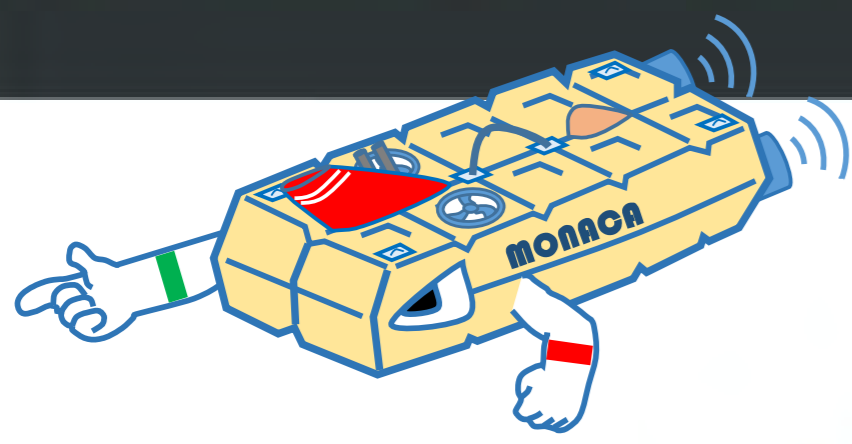
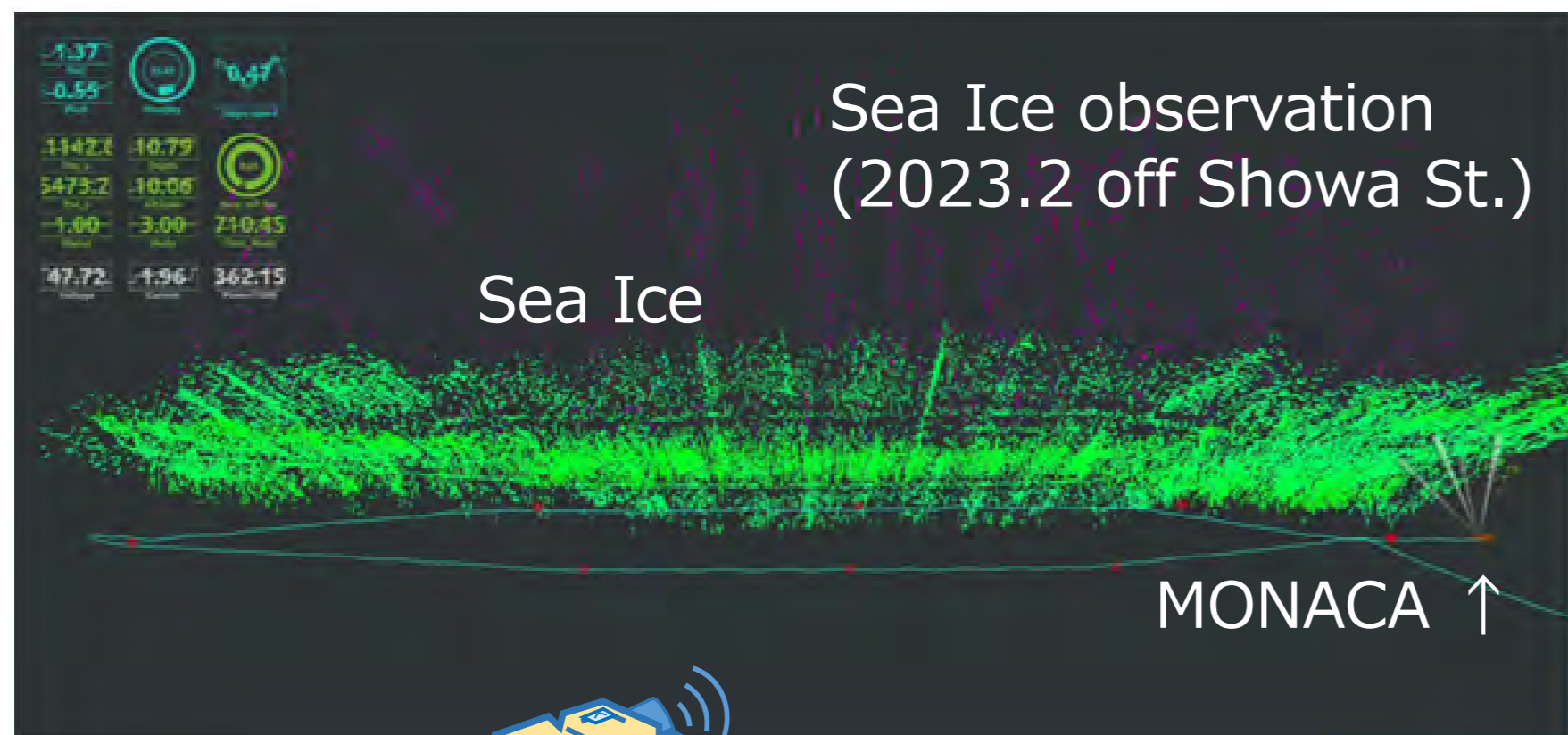
Underwater Platform Systems

<http://makilab.iis.u-tokyo.ac.jp>

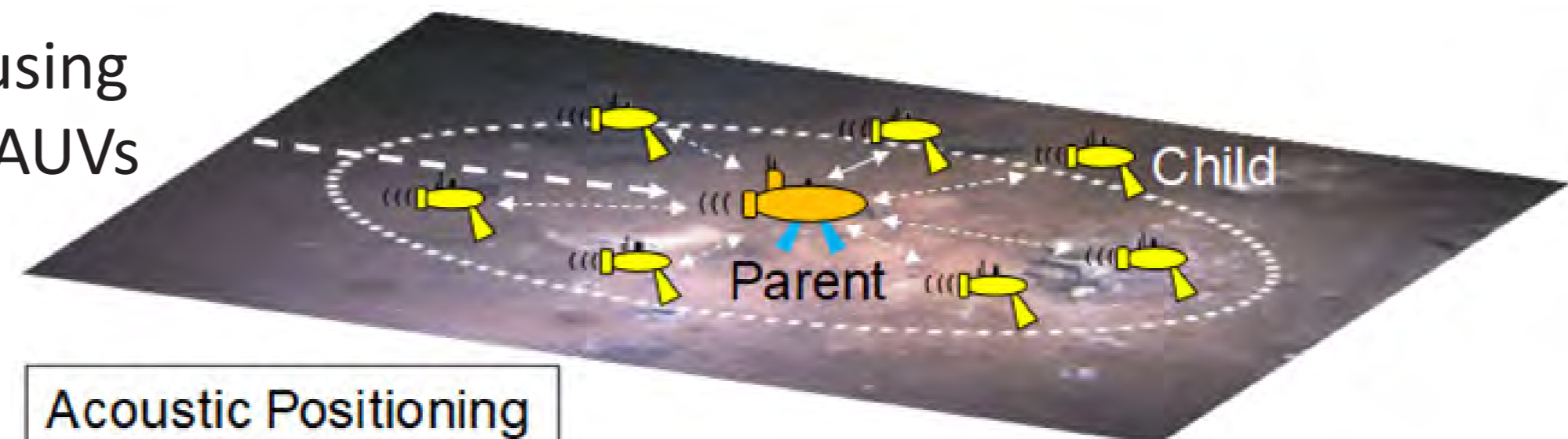
We are developing new systems for underwater observation by means of latest techniques of robotics and informatics. These systems will be able to realize wide-area, high-accuracy, and long-term observation through collaboration of multiple autonomous agents, for example, autonomous underwater vehicles (AUVs).

Under-ice survey

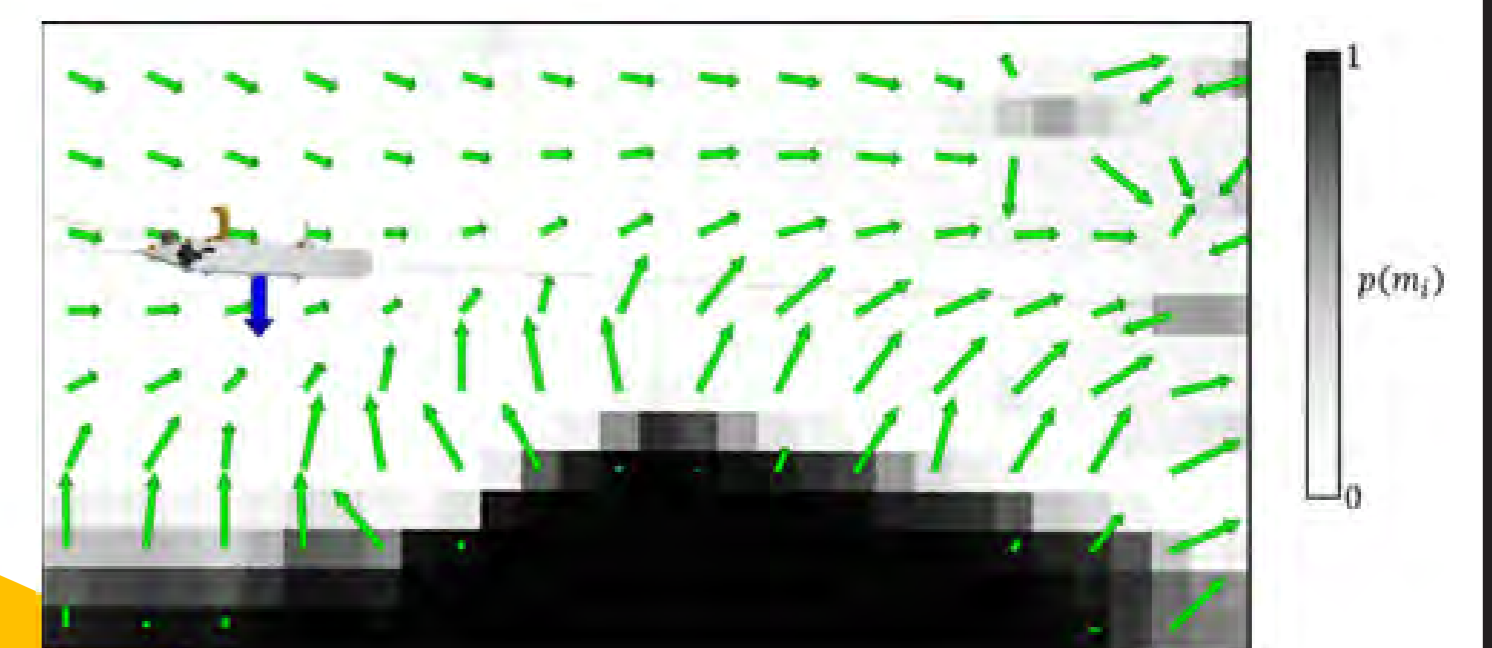
The first Antarctica operation was successfully performed in 2023 !



Cooperative survey using acoustic network of AUVs

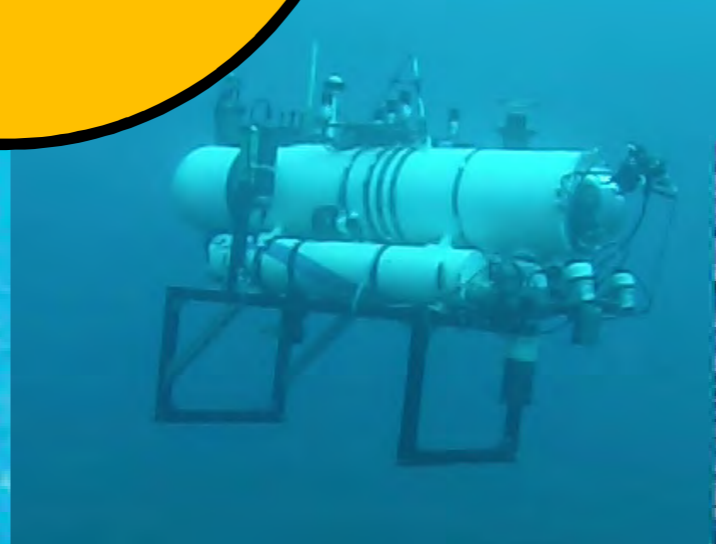


Acoustic Positioning
Cooperation
Formation Control

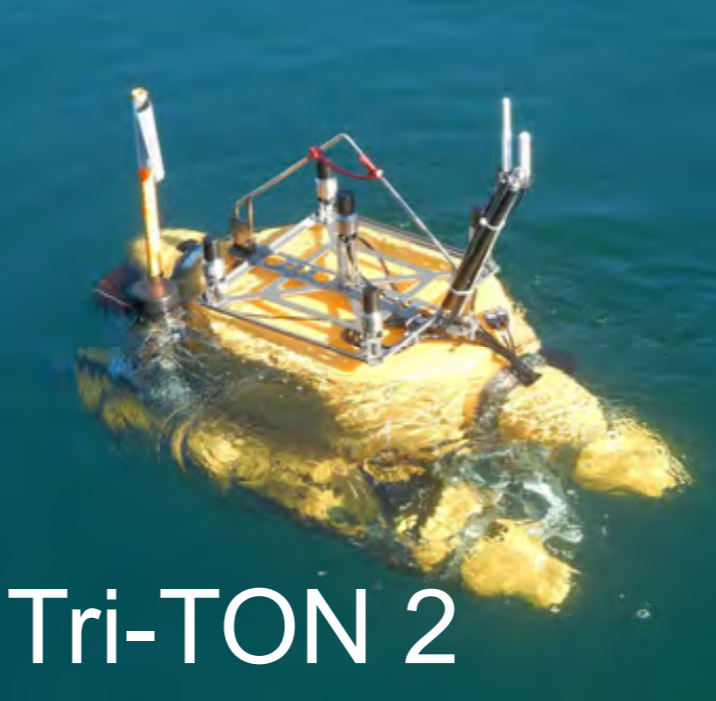
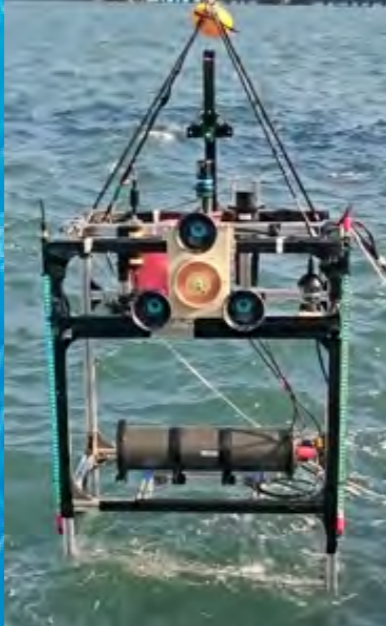
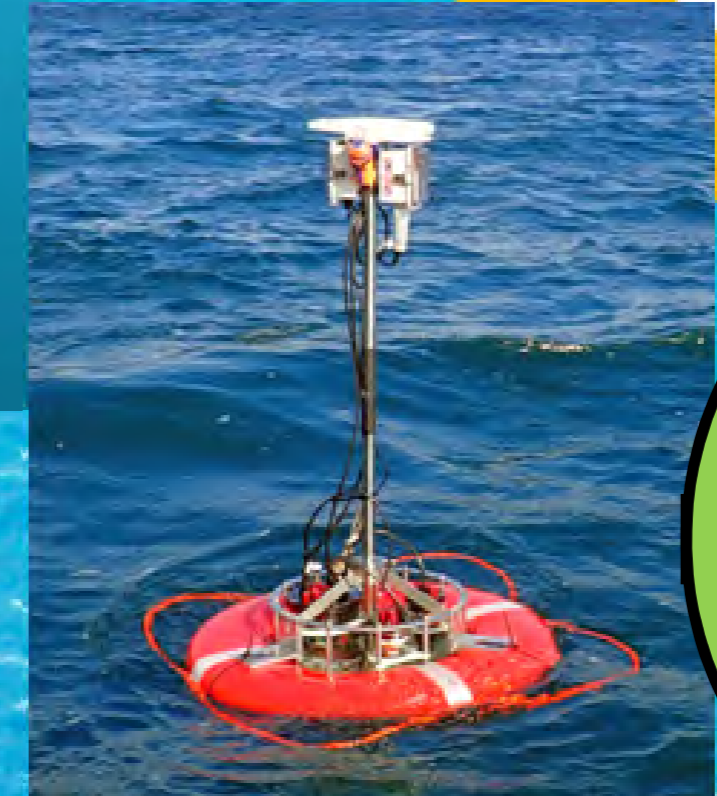


Multi Vehicles

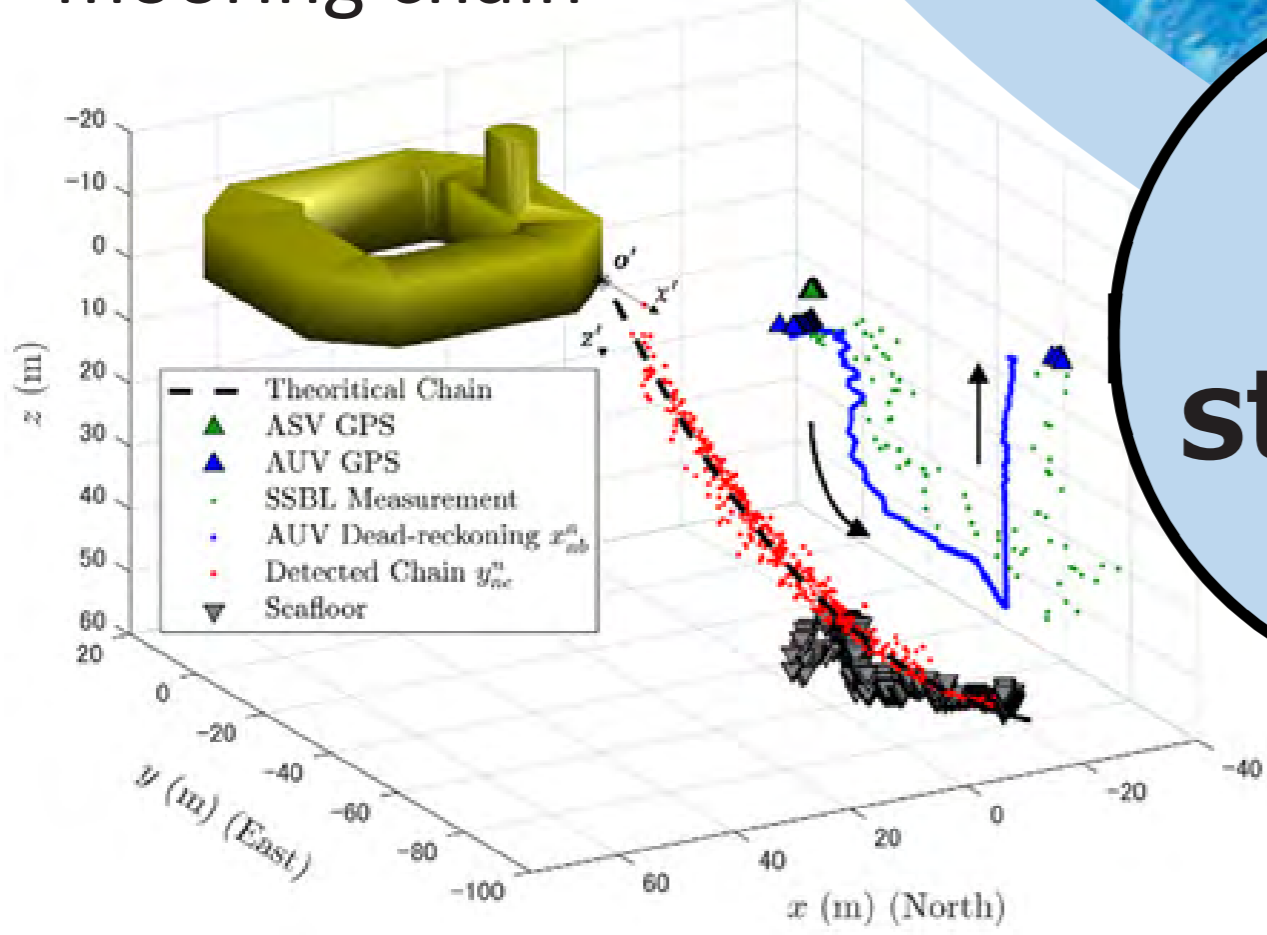
Under Ice



Low-cost AUV



Autonomous monitoring of a mooring chain



Infra structure



Biological Observation

Autonomous tracking of marine life

