

MAKI LAB.

Light for the Sea, Adventures for the Robots!



Center for Integrated Underwater Observation Technology
Food Production Technology Research Center

Underwater Platform Systems

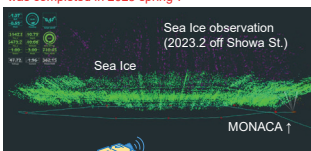
Department of Ocean Technology, Policy and Environment, Graduate School of Frontier Sciences

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

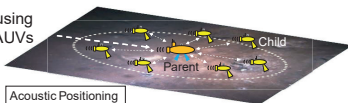
We are developing new systems for underwater observation by means of latest techniques of robotics and informatics. These systems will be able to realize wide-area, high-accuracy, and long-term observation through collaboration of multiple autonomous agents, for example, autonomous underwater vehicles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

Under-ice Exploration

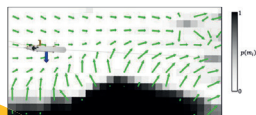
The first untethered operation in Antarctica was completed in 2025 spring!



Cooperative survey using acoustic network of AUVs



Acoustic Positioning Cooperation Formation Control



Low-altitude tracking of rugged seafloor

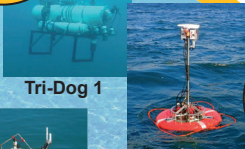
Multi Vehicles

Under Ice



MONACA

Tri-Dog 1



Low-cost AUV

BUTORI

Tri-TON 2

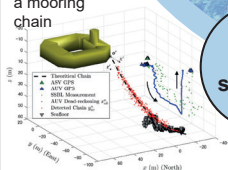


HATTORI



Autonomous tracking of marine life

Autonomous monitoring of a mooring chain



Seafloor Station

HATTORI 2



新 Tri-TON



Infra structure

Biological Observation

