

MAKI LAB.

[Future Platform Systems for Underwater Observation]

Center for Integrated Underwater Observation Technology

Underwater Platform Systems

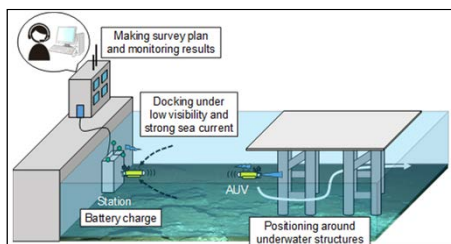
Graduate School of Frontier Sciences

Department of Ocean Technology, Policy and Environment

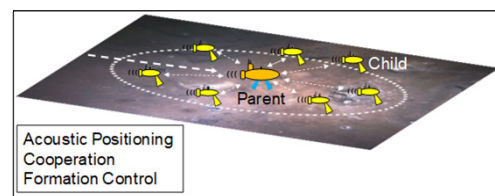
<http://makilab.iis.u-tokyo.ac.jp>

Light for the Sea, Adventures for the Robots!

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).



Long-term monitoring of underwater structures using a station and an AUV



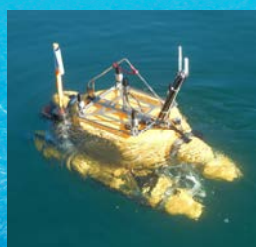
Cooperative survey using acoustic network of AUVs

Resident AUV

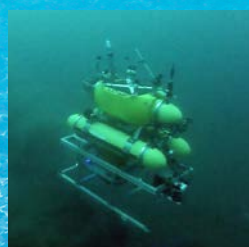
Biological Observation



Seafloor Station



AUV Tri-TON 2



AUV Tri-TON

Multi Vehicles



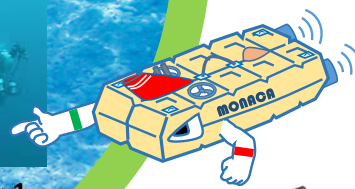
AUV HATTORI



AUV HATTORI 2

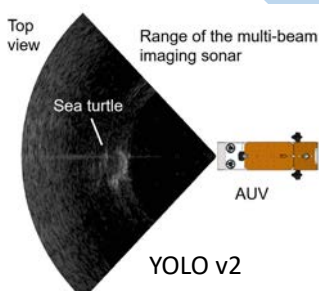


AUV Tri-Dog 1

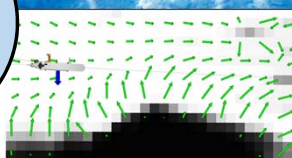


AUV MONACA

Autonomous tracking of a sea turtle

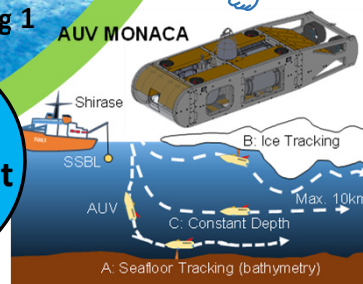


Low-cost AUV



Seafloor tracking with low-cost sensors

Extreme Environment



Under-ice survey
Antarctica trial is coming soon!

