CIUOT

ASADA LAB.

[Development of Exploration System for Sea Resources]

Center for Integrated Underwater Observation Technology

Underwater Acoustic Systems Engineering

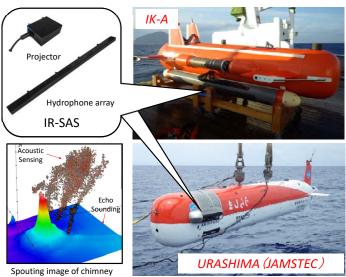
Department of Ocean Technology, Policy, and Environment,

Graduate School of Frontier Sciences

http://unac.iis.u-tokyo.ac.jp/

Exploration for Sea-floor Hydrothermal Deposit

We develop new underwater acoustic technologies for exploration of sea resources. The acoustic device (SONAR) is equipped on the autonomous underwater vehicle, and used to get high resolution bathymetric map and detect layers under the sea bottom. This project collaborates with JAMSTEC and NMRI, etc..







3D acoustic image of chimney

conventional Narrow bean Buried deposit Survey concept

Parametric-SBP

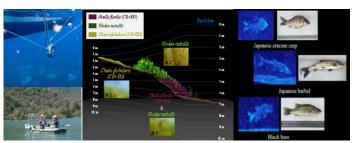
Acoustic image of layers under the sea bottom



Operating image of AUV

Acoustic Monitoring for Underwater Vegetation and Fish

Monitoring for underwater environment using high resolution acoustic video camera.

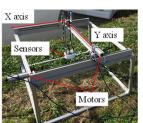


Field survey 3D distribution of aquatic plant

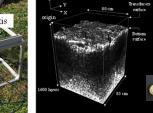
Classification of fish

Acoustic Visualization Under Sea Bottom

Nondestructive evaluation method sediment. The environment under water bottom will be revealed by this new acoustic visualization technology.



Acoustic coring system



3D acoustic image in sediment Detection of selfish

