

Deep Submergence Laboratory

Vehicles

The Deep Submergence Laboratory builds and operates a variety of underwater vehicles. Below is a list of vehicles that are currently in development or being operated by the lab.

Remotely Operated Vehicles (ROVs)



ROV Jason/Medea:

Jason/Medea is a remotely operated vehicle (ROV) system designed and built by WHOI's Deep Submergence Laboratory. A 10-kilometer (6-mile) tether relays electrical power, control signals, data and live video imagery between a surface ship and the vehicle.

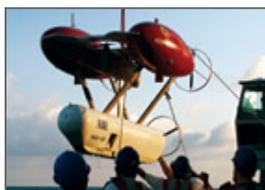
Hybrid Remotely Operated Vehicle (HROV)



Hybrid Remotely Operated Vehicle (HROV) Nereus

Currently in development, *Nereus* will operate in two modes; as an autonomous, or free-swimming, vehicle for wide area surveys and as a tethered, or cabled, vehicle for sampling and other tasks.

Autonomous Underwater Vehicles (AUVs)



AUV Sentry

The autonomous underwater vehicle (AUV) *Sentry* is following in the wake of its predecessor, ABE, as a fully autonomous underwater vehicle capable of exploring the ocean down to 6,000 meters (19,685 feet) depth.

AUV Jaguar



Jaguar was designed to hover in place—like a helicopter or hummingbird—and collect photographs and high-resolution sonar maps of deep ocean vent sites.

AUV Puma



Also known as the "plume mapper," the Puma autonomous underwater vehicle uses sonar, lasers, and chemical sensors to search wide areas near the ocean floor and detect the telltale temperature, chemical, or particulate signals from hydrothermal vent plumes.

AUV SeaBed



SeaBED is an AUV that can fly slowly or hover over the seafloor to depths of 6,000 feet (2,000 meters), making it particularly suited to collect highly detailed sonar and optical images of the seafloor.

Last updated: May 21, 2008

Copyright ©2007 Woods Hole Oceanographic Institution, All Rights Reserved.

Mail: Woods Hole Oceanographic Institution, 266 Woods Hole Road, Woods Hole, MA 02543, USA.

E-Contact: info@whoi.edu; press relations: media@whoi.edu, tel. (508) 457-2000
Problems or questions about the site, please contact webdev@whoi.edu