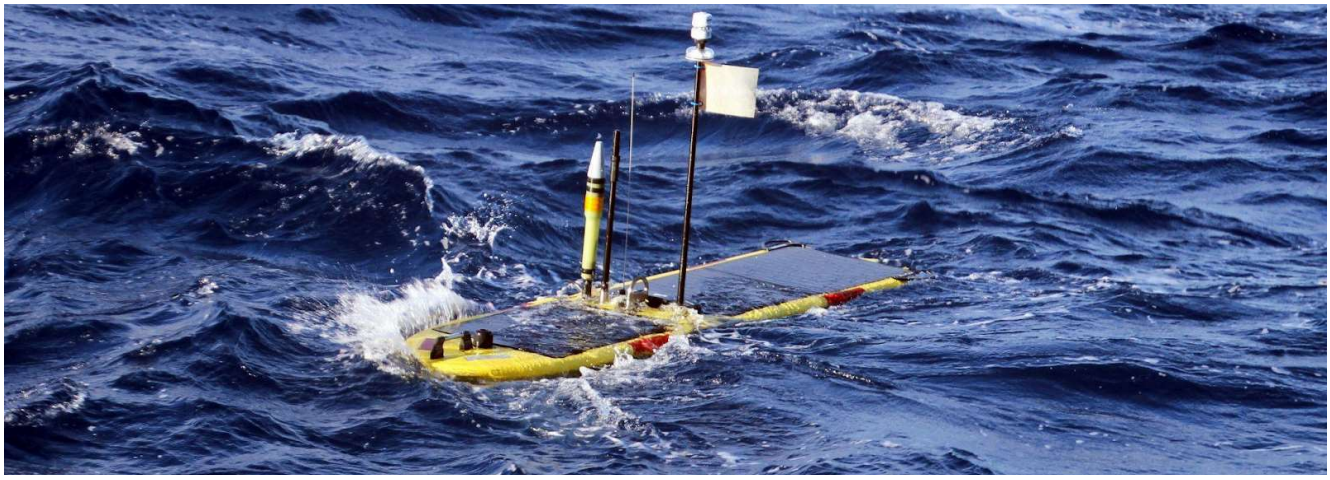
NDSF NATIONAL DEEP SUBMERGENCE FACILITY

WAVEGLIDER



The NDSF Waveglider is the latest addition to the National Deep Submergence Facility's suite of tools, adopted after years of development. This cutting-edge surface vehicle, purchased through Liquid Robotics, can be used in conjunction with Jason, Sentry, and Alvin operations.

The Waveglider is an SV3 Model Block II. It features a custom WHOI micromodem acoustic communications package, enabling over-the-horizon operations with subsea vehicles and platforms through an iridium link. Additional sensors can be integrated into the Waveglider upon request to meet specific mission requirements.

The Waveglider utilizes wave motion as its primary means of propulsion, achieving an average speed of 1.5 knots. For days with calm seas, it is equipped with a backup thruster to maintain mobility. The vehicle's batteries, which power all electronics and sensors, are charged via solar panels, providing it with theoretically infinite endurance.

When used in conjunction with AUV Sentry the Waveglider receives acoustic messages from Sentry and sends them over Iridium Satellite where they can be viewed on the ship and/or on shore. Allowing for added efficiency for other tasks to be completed during the dive while tracking dive progress.

Applications:

The NDSF Waveglider enhances the capabilities of subsea exploration and monitoring. Its integration with other NDSF vehicles and its ability to operate independently make it a versatile tool for a wide range of missions. Whether used for data collection, communication relay, or environmental monitoring, the Waveglider provides reliable performance and extended operational duration. Reach out to the contact list below to discuss your application in detail or plan your expedition with the NDSF Waveglider.

FOR MORE INFORMATION PLEASE CONTACT:

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Also visit the waveglider program website at: ndsf.whoi.edu/waveglider