

# MARINE AND COASTAL MAPPING

## HYDROGRAPHIC SOLUTIONS THAT ARE ACCURATE, PRECISE, AND RELIABLE

Since 1979, Leidos has been a leader in the execution of hydrographic, oceanographic, and geophysical surveys in shallow coastal areas worldwide. Leidos also has led multibeam sonar surveys for the U.S. government since 1994. By leveraging our understanding of the science behind the data, we can provide cost-effective, high-quality marine data and management support for our customers.

## RIGOROUS, HIGH-QUALITY DATA COLLECTION, PROCESSING, AND VISUALIZATION

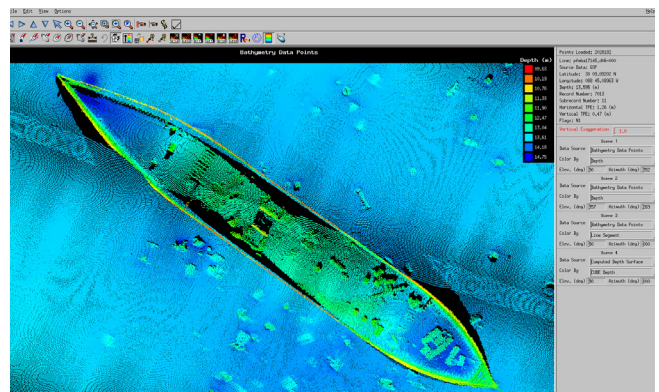
Leidos offers comprehensive capabilities in the design and integration of complex survey systems and the application of those systems to meet rigorous survey requirements in the United States and around the world.

Our program management experience facilitates rapid deployment of well-organized, timely operations and smooth integration of new information capabilities with legacy systems.

Our technology, procedures, and hydrographic datasets are designed to routinely meet the detailed specifications of our customers.

## GEOGRAPHIC INFORMATION SYSTEMS (GIS) AND DATA SOLUTIONS

Leidos' full cartographic and GIS production center specializes in marine and terrestrial survey data processing and visualization. Our custom and commercial off-the-shelf software and high-end workstations enable us to process survey data to exacting government and International Hydrographic Organization (IHO) standards, while industry standard GIS and computer-aided design software visualizes the processed data.



## INTEGRATED SURVEY SYSTEM ISS-2000

Leidos' ISS-2000 is a powerful, shallow-water survey and data collection software package with a history of reliability and accuracy. Using dynamic, real-time processing and visualization tools, ISS-2000 can help customers achieve:

- High-speed collection of hydrographic, oceanographic, and geophysical survey data
- Higher efficiency
- Real-time quality assurance
- Higher data yields

ISS-2000 interfaces with a wide range of multibeam and single-beam echosounders, Global Positioning System receivers, motion sensors, acoustic positioning systems, autopilots, and other equipment to provide highly flexible survey configurations.

## SURVEY ANALYSIS AND AREA BASED EDITOR (SABER)

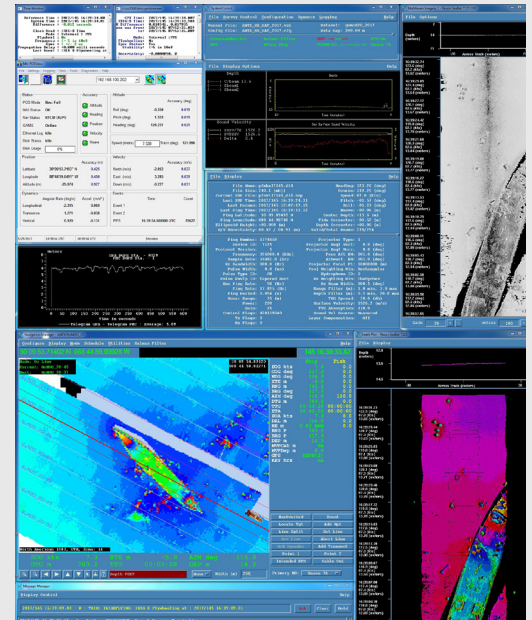
Leidos' SABER tool is a flexible, and robust data processing capability. SABER can efficiently and smoothly archive, display, and process the enormous data volumes associated with modern hydrographic surveys. SABER provides a three-dimensional display to edit data in along-track or area-based modes.

SABER generates color-coded bathymetry grids, sonar imagery mosaics, contours, selected soundings, and total propagation uncertainty values.

It also fully integrates the Combined Uncertainty and Bathymetry Estimator (CUBE) algorithm, which enables generation of CUBE depth surfaces and Bathymetric Attributed Grids (BAGs) in compliance with the latest hydrographic standards.

## ABOUT LEIDOS

Leidos is a Fortune 500® information technology, engineering, and science solutions and services leader working to solve the world's toughest challenges in the defense, intelligence, homeland security, civil, and health markets. The company's 38,000 employees support vital missions for government and commercial customers.



## CAPABILITIES

- Hydrographic surveying and data collection
- Survey program management and systems integration
- Data processing to government and scientific standards
- Data visualization and analysis

## PRODUCTS

- ISS-2000
- SABER

## FOR MORE INFORMATION

[leidos.com/capabilities](https://leidos.com/capabilities) | [leidos.com/contact](https://leidos.com/contact)

