



Case Study:
Effectiveness of SeaScout in the
Search for Unexploded Ordnance

www.thayermahan.com | 860-785-9994



1: Background

Mine Warfare capabilities are all too often neglected, leaving fleet assets aging and tactics untested until it is too late.

The asymmetric nature of the threat enables non-state actors and established forces alike the ability to disable high-value assets and disrupt essential military and commercial transit with minimal cost and technical sophistication.

Additionally, 18 years of warfare have shown the effectiveness and destruction imposed by improvised explosive devices (IEDs) on both personnel and property, and the maritime domain remains increasingly vulnerable. Water-borne IEDs (WBIEDs) have been utilized in various theatres, with their construction, deployment, and triggering only limited by the imagination of the nefarious actor.





2: Impact

When such unexploded items are not appropriately handled, they leave a dangerous legacy from a safety and environmental standpoint.

The Baltic Sea alone contains over 50,000 pieces of unexploded ordnance as a result of 100 years of conflict and two world wars. In the United States, 15,000 square miles of former underwater range and testing sites remain littered with military munitions. Remediation challenges exist many years on, leaving unique challenges for generations ahead.

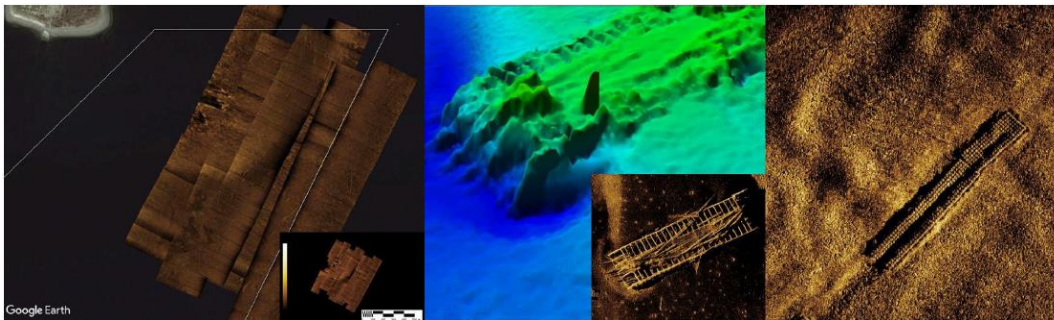




3: Solution

SeaScout has changed the game.

Until recently, methods for identifying objects on the seafloor have had limited success, even with the application of remote and unmanned platforms and an increasing variety of sensor payloads. Now, SeaScout has changed the game – enabling unprecedented resolution and area coverage rates. The interferometric synthetic aperture towed system provides near-optical quality images beneath the sea for any user requiring an enhanced knowledge of their environment from research and infrastructure analysis to threat assessment and mitigation.





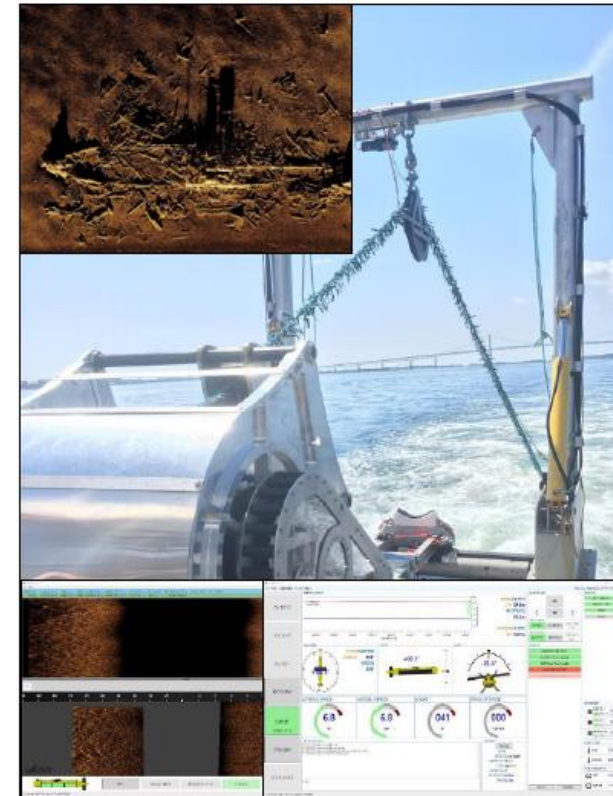
4: System Overview

SeaScout allows us to understand the seafloor in real time, in stunning detail.

Recent developments have made synthetic aperture sonar a commercially viable alternative for understanding what goes on beneath the waves.

High-fidelity, large-volume surveys of the seafloor and its contents generate the maps needed for safe navigation, the details for infrastructure assessment, and the situational awareness critical for any security operation. A complete understanding of your environment, from a research perspective to a threat assessment and mitigation strategy, must include what you cannot always see. The ThayerMahan SeaScout provides that capability.

Learn more at ThayerMahan.com/Systems/SeaScout.



About ThayerMahan



ThayerMahan provides innovative systems and expertise, connected by a global data platform, to help to protect our nation and its vital interests.

We design, manufacture, and (when desired by our customers) operate systems to collect acoustic, electronic information on the world's oceans. These systems expand coverage for government and industry partners to protect borders, natural resources, and undersea infrastructure—and do so at extremely low cost compared traditional monitoring assets.



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