SonarWiz Used by Surveyors and Museum to Identify Shipwrecks in Danish North Sea

The *HMS St George* shipwreck museum in Denmark is responsible for the maritime archaeology of a large part of the Danish North Sea. Investigating underwater cultural heritage and safeguarding these findings is part of the everyday work for the maritime archaeologists of the museum.

The museum is always looking for new ways to make research easier, more exact and secure. SonarWiz software by Chesapeake Technology was recently selected for several reasons. Survey groups Energinet, Fugro and MMT used SonarWiz to survey, collect and process side scan sonar data which the museum later processed for their archaeological analyses. The two case studies below are available on the museum's website.

The **Baltic Pipe report** (May 2017) covers the archaeological screening results from geophysical data of a 300 meter wide and 105 kilometer long gas pipe corridor, aimed to connect Norwegian maritime gas supply to Polish land based gas supply. SonarWiz was used to process data during this project. Information on each target was quickly assembled, compared and automatically saved in SonarWiz, easing and securing the screening process. A total of 71 targets were selected during the archaeological screening and 25 of these targets were categorized as being of potential cultural heritage.

The **Havfrue report** (March 2019) covers the archaeological screening of geophysical data collected in 2018 for laying a transatlantic fiber cable in the North Sea. The geophysical data was analyzed using SonarWiz, then two sites were identified and subsequently made a protected area. A big benefit of SonarWiz is the ability to automatically generate detailed reports with sonar images, size and position of anomalies. These tables are easily exported and added to the archaeological reports produced by the museum.

The Strandingsmuseum St. George (the *HMS St George* shipwreck) museum opened in 1992. The museum tells the story of thousands of dramatic shipwrecks off the Danish coast of West Jutland and peoples' encounter with seamen from all over the world. The museum recently won a Stiletto Prize - European Museum of the Year Award, the oldest and most prestigious museum award in Europe. The Stiletto, one of five categories, recognized the museum for excellence in working with the local community and involving volunteers.

Chesapeake Technology, Inc. is a privately held company based in Mountain View CA. SonarWiz software is used by hundreds of clients worldwide, including NOAA, USGS, Fugro, Oceaneering, leading academic institutions, and many of the world's navies.

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