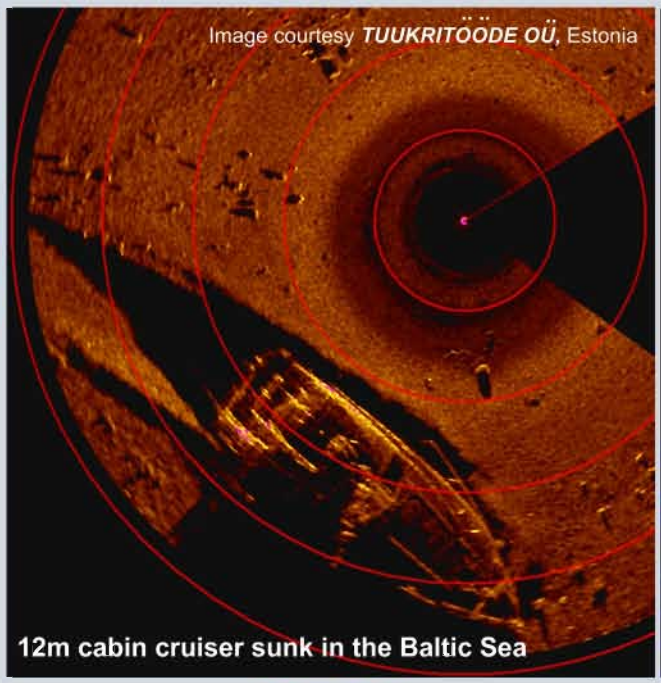
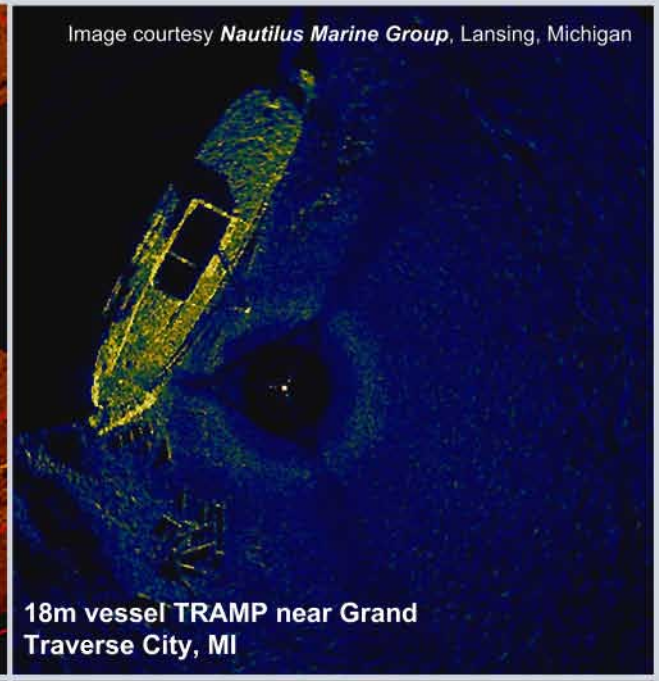
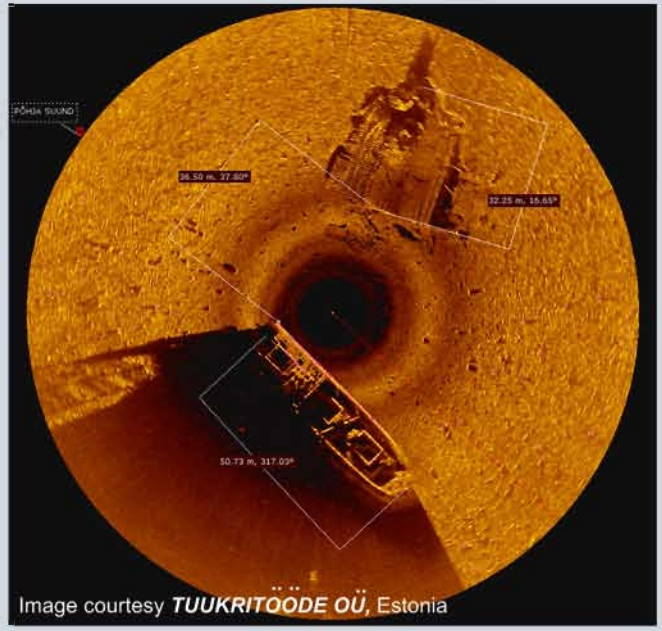
KONGSBERG

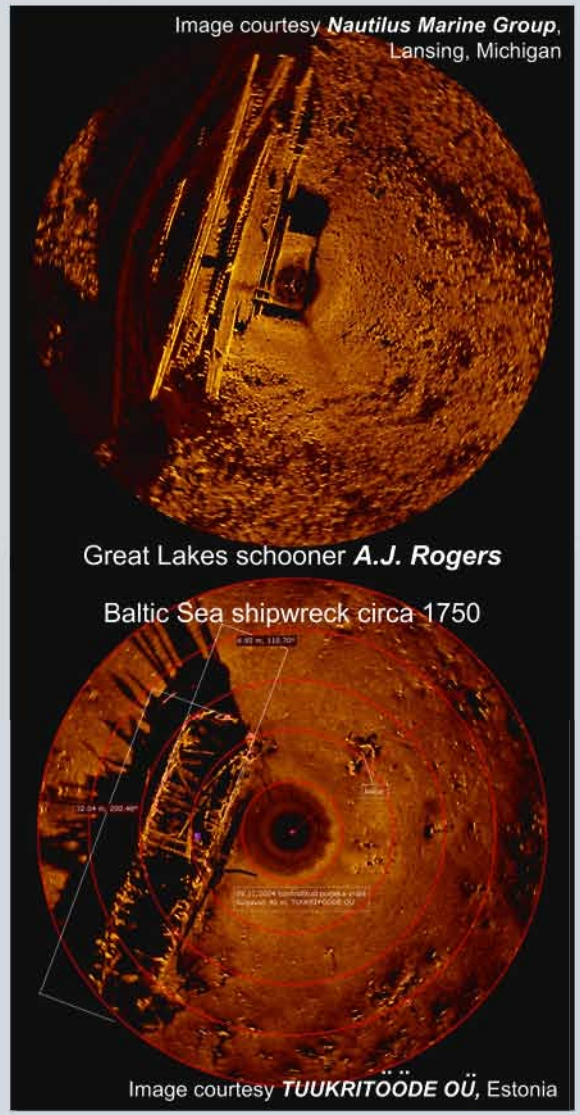
Shipwreck Documentation





Tripod or ROV-deployed scanning sonar provides a stable platform for shipwreck analysis.





THE FULL PICTURE

KONGSBERG MESOTECH LTD.

KONGSBERG

Sonar equipment configuration for shipwreck documentation:

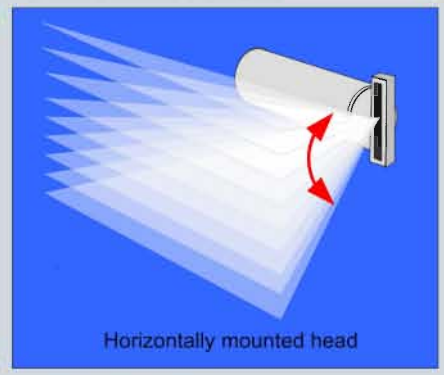
- Computer with MS 1000 PC-based Sonar Software
- MS 1000 "Splashproof" Interface Unit
- Kevlar deployment cable
- 675 kHz High Resolution Scanning Sonar Head with fan beam transducer (or Multi Frequency High Resolution Sonar Head)
- Tripod
- Remote Keypad/Hand-controller

"Typical" MS 1000 System with a 100m (330') Kevlar operations cable

Additional Information:

The advantage of using scanning sonar to document shipwrecks is the instrument can be deployed at multiple positions around the wreckage to obtain the best geometric coverage and to detail specific areas of interest. For salvage operations, the sonar can be used to monitor divers or the position of rigging in real-time.

Consider other mounting configurations for scanning shipwrecks. The head can be horizontally aligned to obtain the images shown below. In the left image the sonar was ROV-deployed; the right image was taken with the head strapped to a horizontal bar and lowered 15m (49.2') below the anchored research vessel.



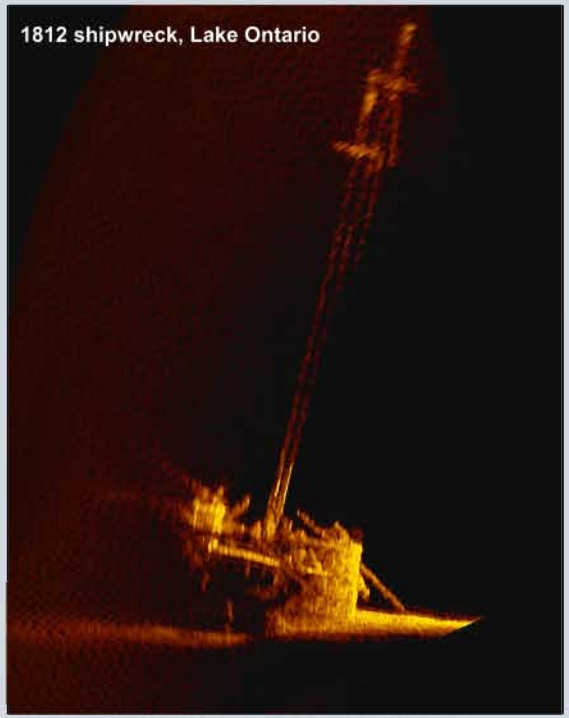
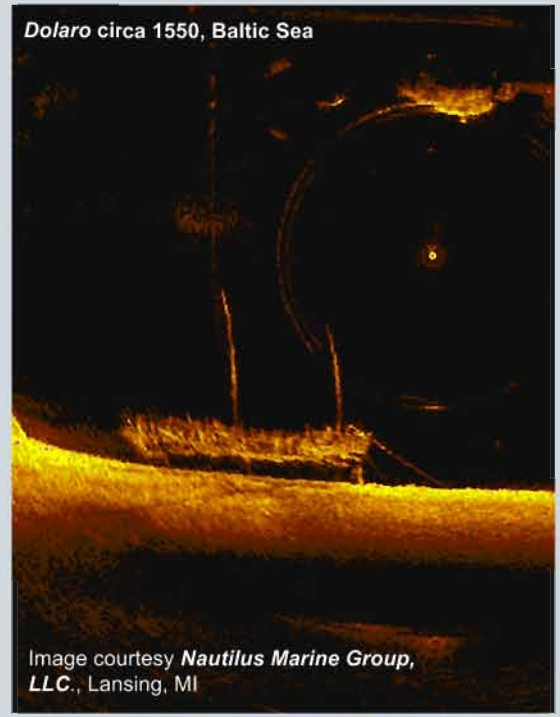


Image courtesy ***ASI Group, Ltd.***, St Catharines, Ontario Canada



THE FULL PICTURE