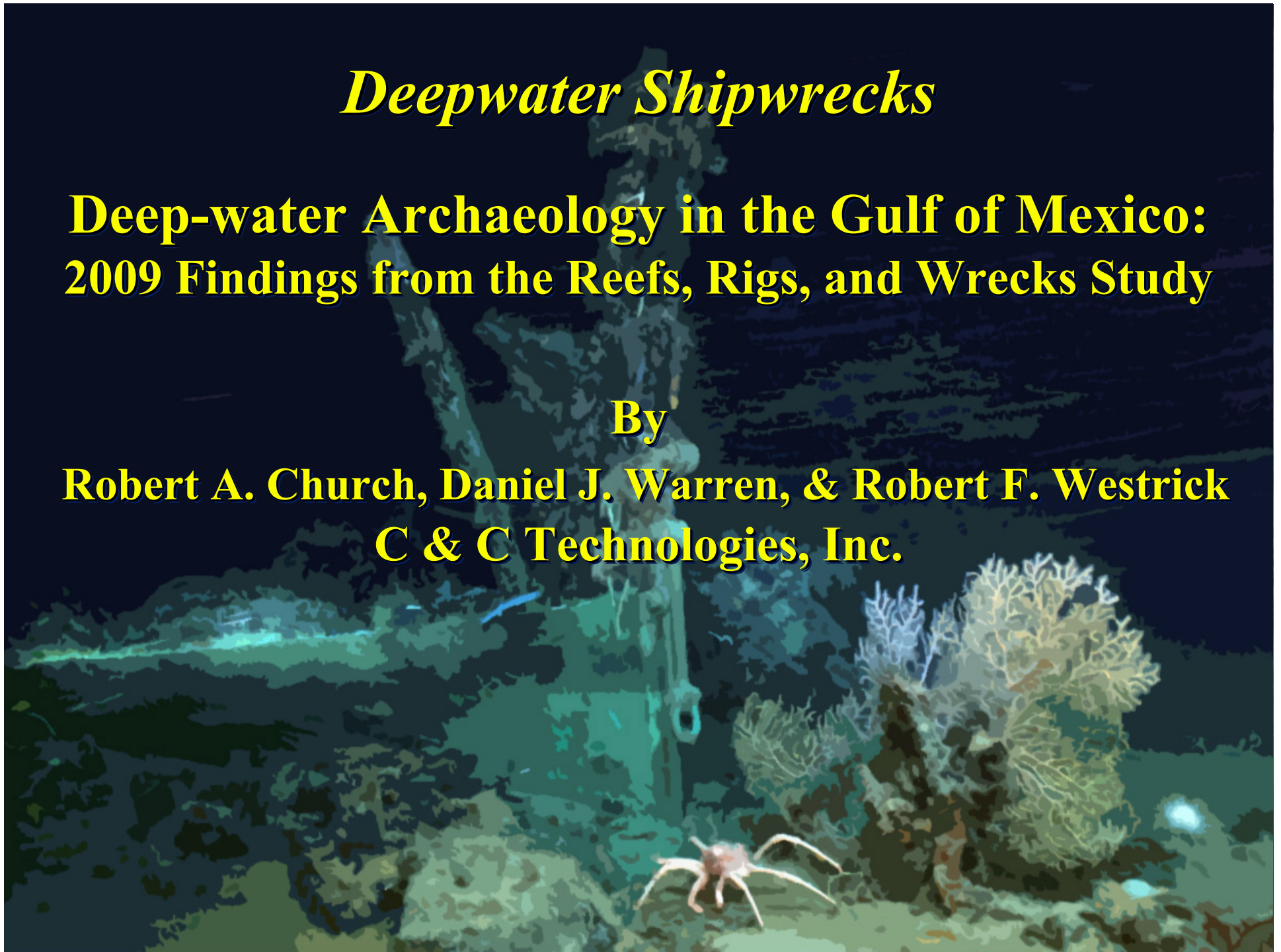


Deepwater Shipwrecks

**Deep-water Archaeology in the Gulf of Mexico:
2009 Findings from the Reefs, Rigs, and Wrecks Study**

By

**Robert A. Church, Daniel J. Warren, & Robert F. Westrick
C & C Technologies, Inc.**



Project Organization



C & C Technologies Droycon Bioconcepts
IFREMER France LSU Past Foundation
Penn State Univ. TAMU-CC Temple Univ.
Univ. West Florida USGS WHOI

**Archaeology, Biology, Education Outreach,
Geology, Oceanography, etc.**

Archaeology

C & C Technologies, Inc.

Droycon Bioconcepts, Inc.

Past Foundation

University of West Florida

Deepwater Shipwrecks

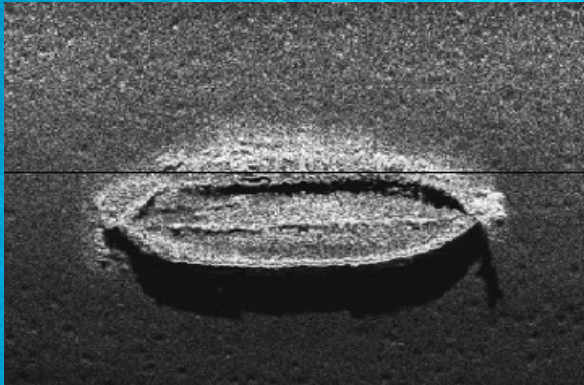
NOAA R/V Ronald H. Brown
ROV Jason II (WHOI)



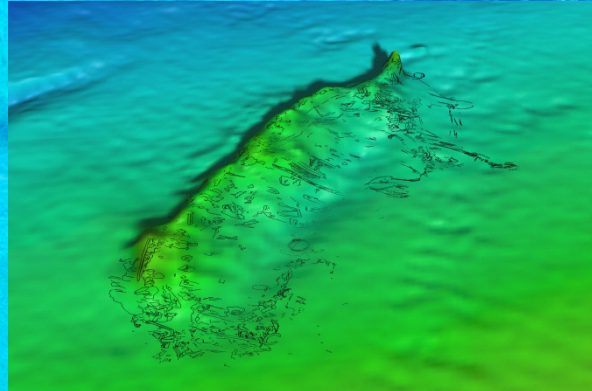
Wreck Sites

19th Century Copper-Clad

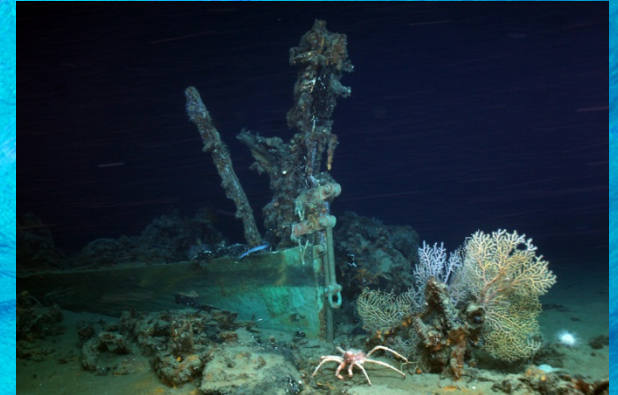
Ewing Banks Wreck



Viosca Knoll Wreck



Green Lantern Wreck



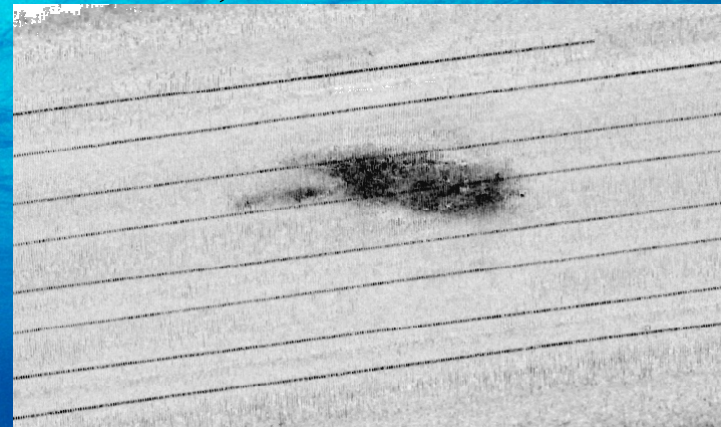
WW II

Gulfpenn



Unknown

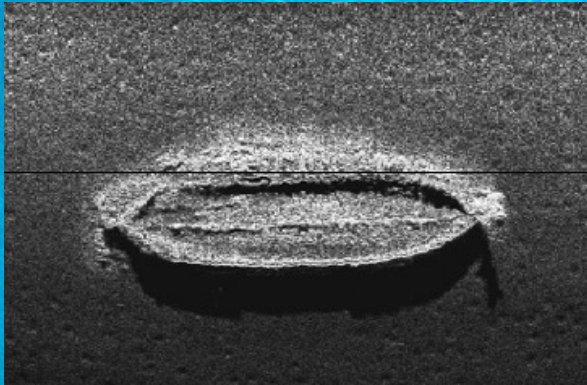
7,000-Ft Wreck



Wreck Sites

19th Century Copper-Clad

Ewing Banks Wreck

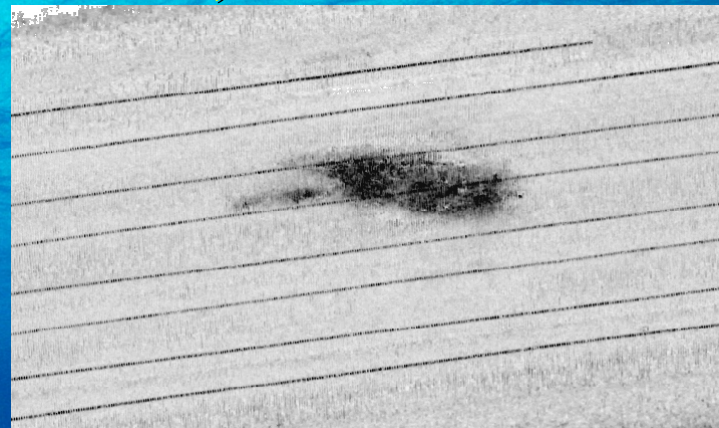


Green Lantern Wreck

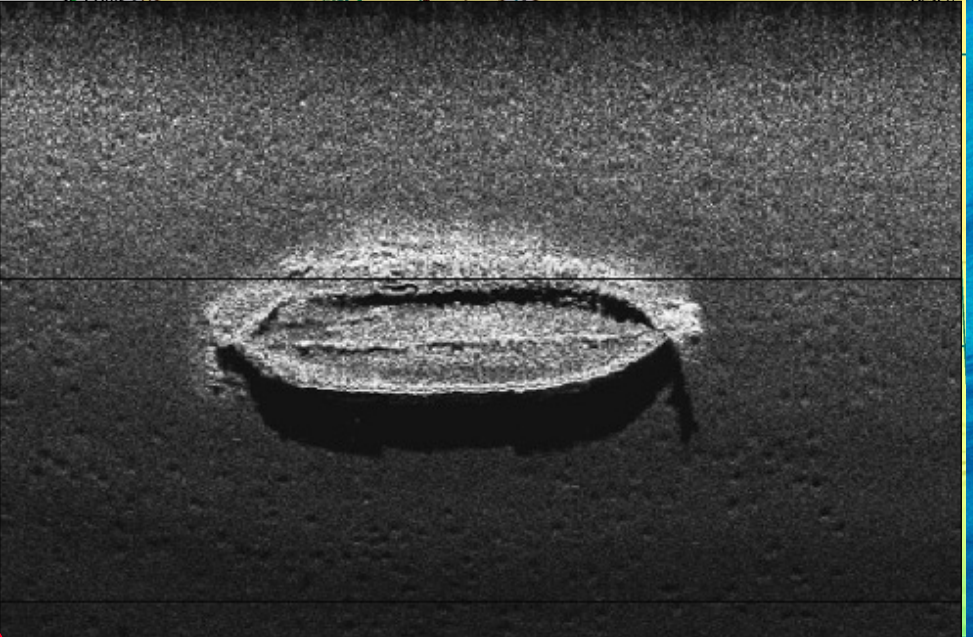
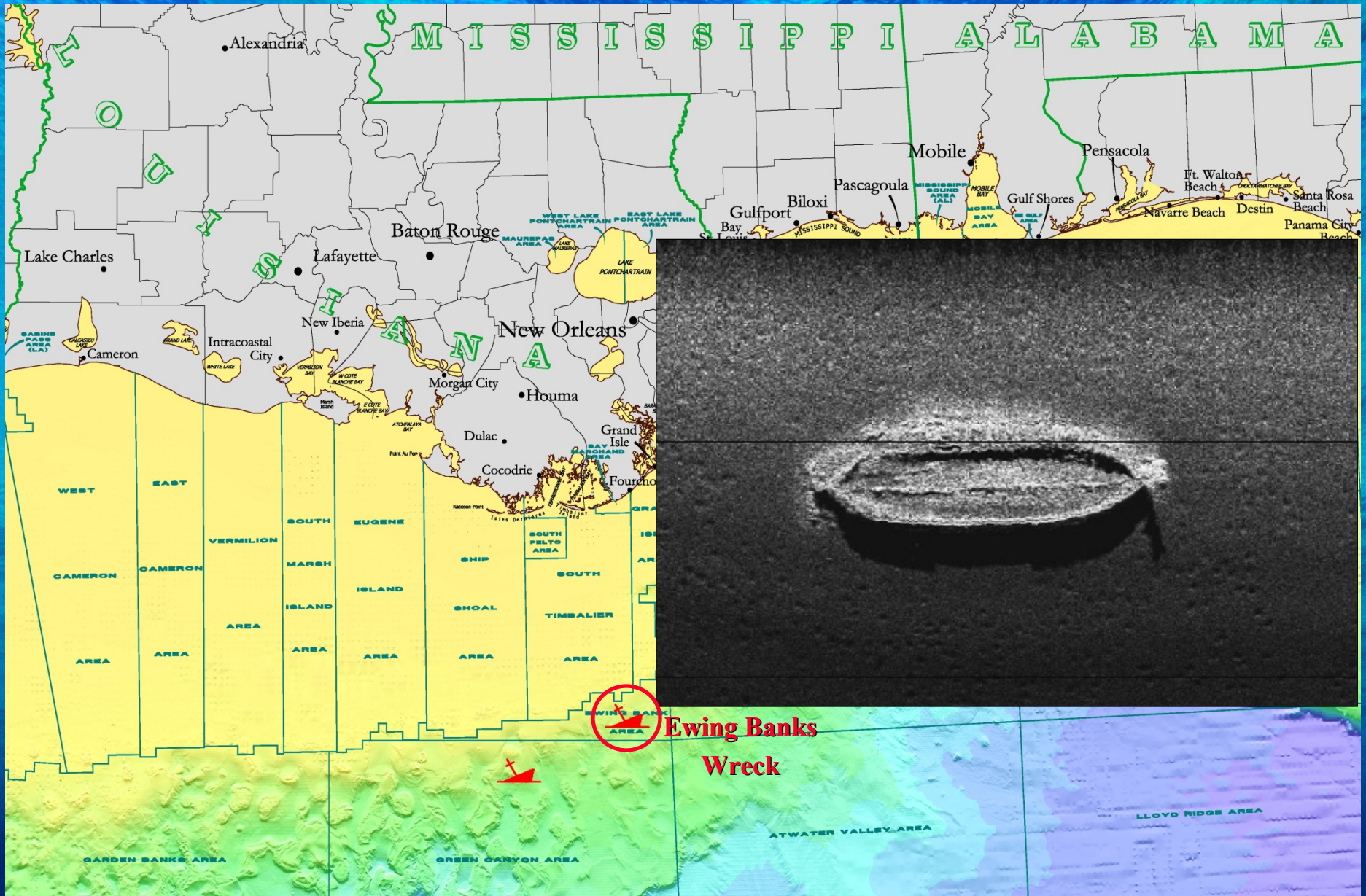


Unknown

7,000-Ft Wreck



Ewing Banks Wreck



Ewing Banks Wreck

Discovered in 2006
Deep-Tow

AUV Survey 2007
C-Surveyor II

ROV Recon. 2008
Falcon SeaEye

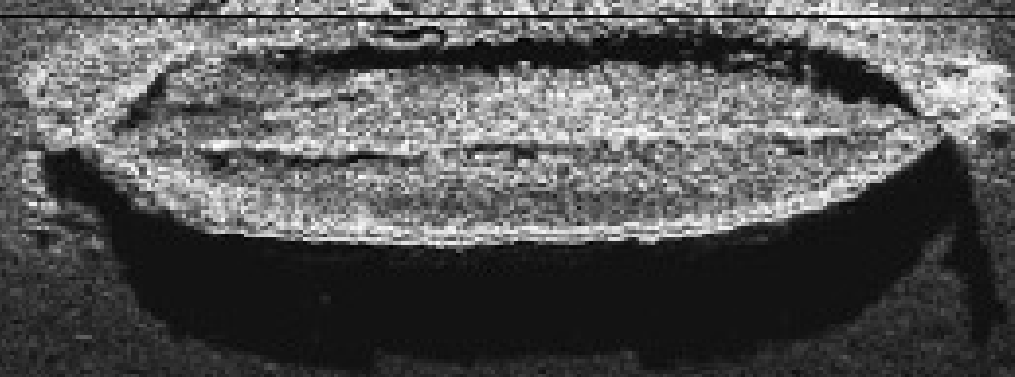
AUV Survey 2009
C-Surveyor III

19th Century Sailing Vessel

Copper Sheathed

150 feet long, 49 feet wide,
8 feet of relief

Depth 2,037 feet (621 m)



Ewing Banks Wreck



C-Surveyor II
2007

19th Century Sailing Vessel

Copper Sheathed

150 feet long, 49 feet wide,
8 feet of relief

Depth 2,037 feet (621 m)

Keelson

Stem Post

410 kHz Side Scan Sonar

Ewing Banks Wreck

Discovered in 2006
Deep-Tow

AUV Survey 2007
C-Surveyor II

ROV Recon. 2008
Falcon SeaEye

AUV Survey 2009
C-Surveyor III

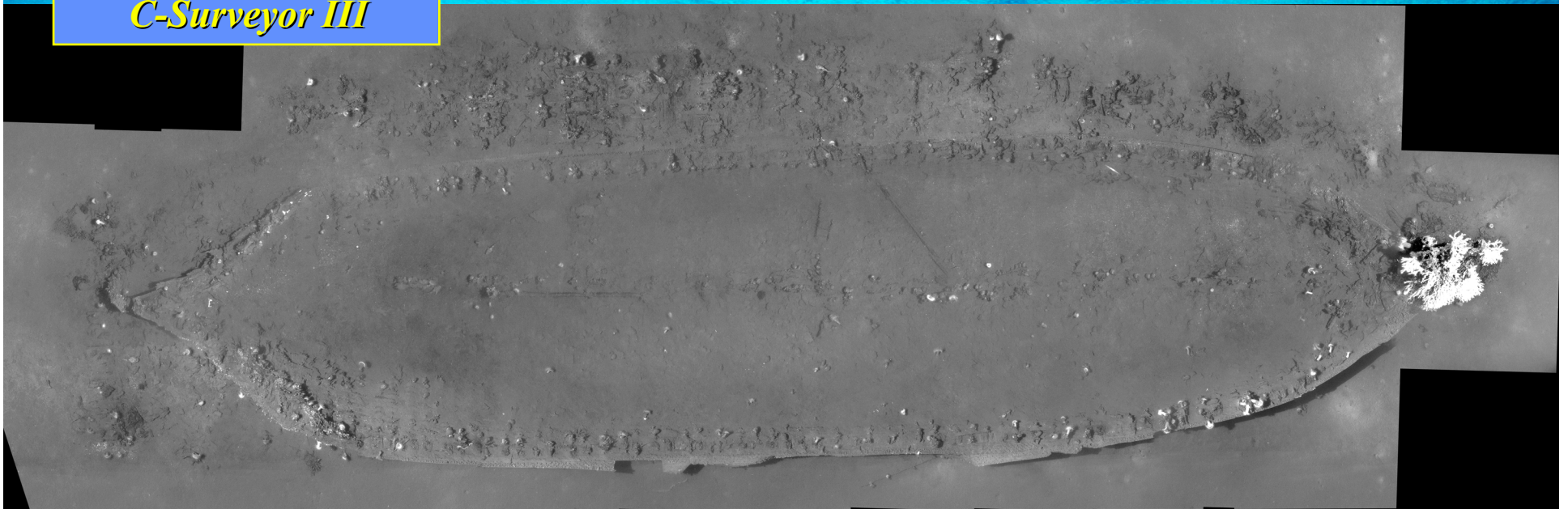
19th Century Sailing Vessel

Copper Sheathed

150 feet long, 49 feet wide,
8 feet of relief

Depth 2,037 feet (621 m)

Photo Mosaic



Assembled by Daniel Warren

Ewing Banks Wreck

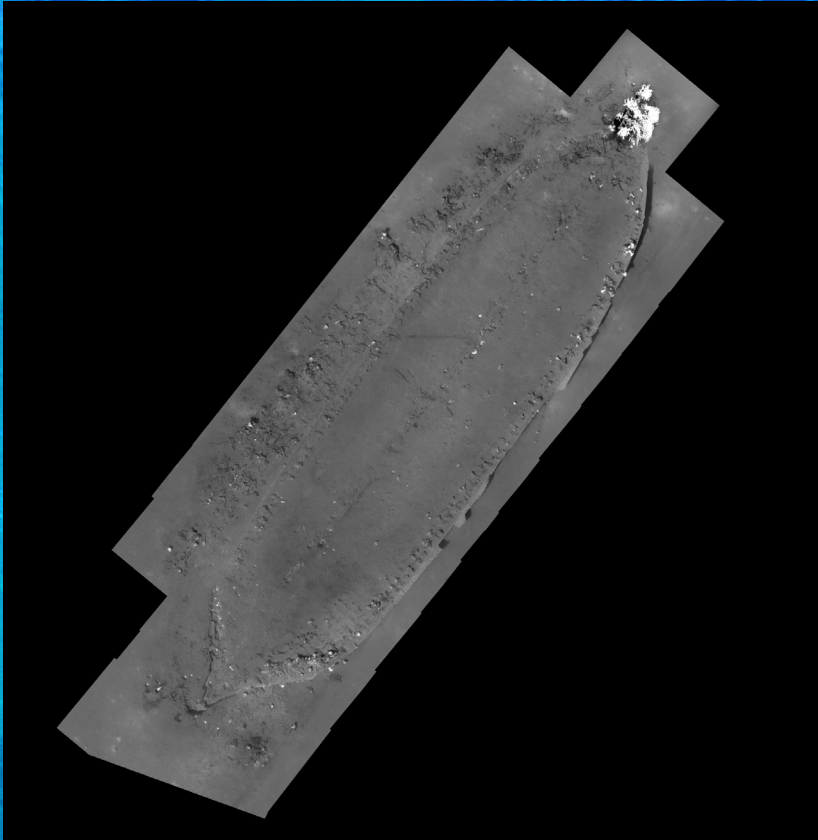


Photo Mosaic



Multibeam Bathymetry

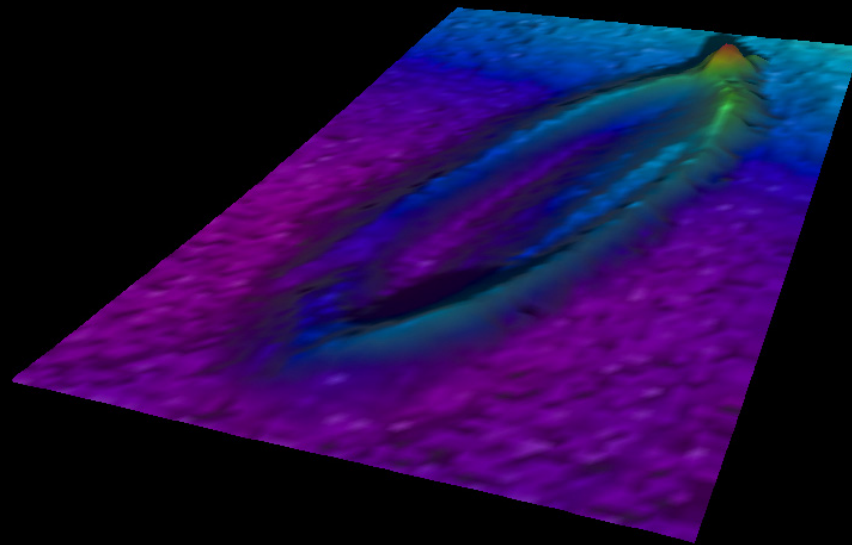
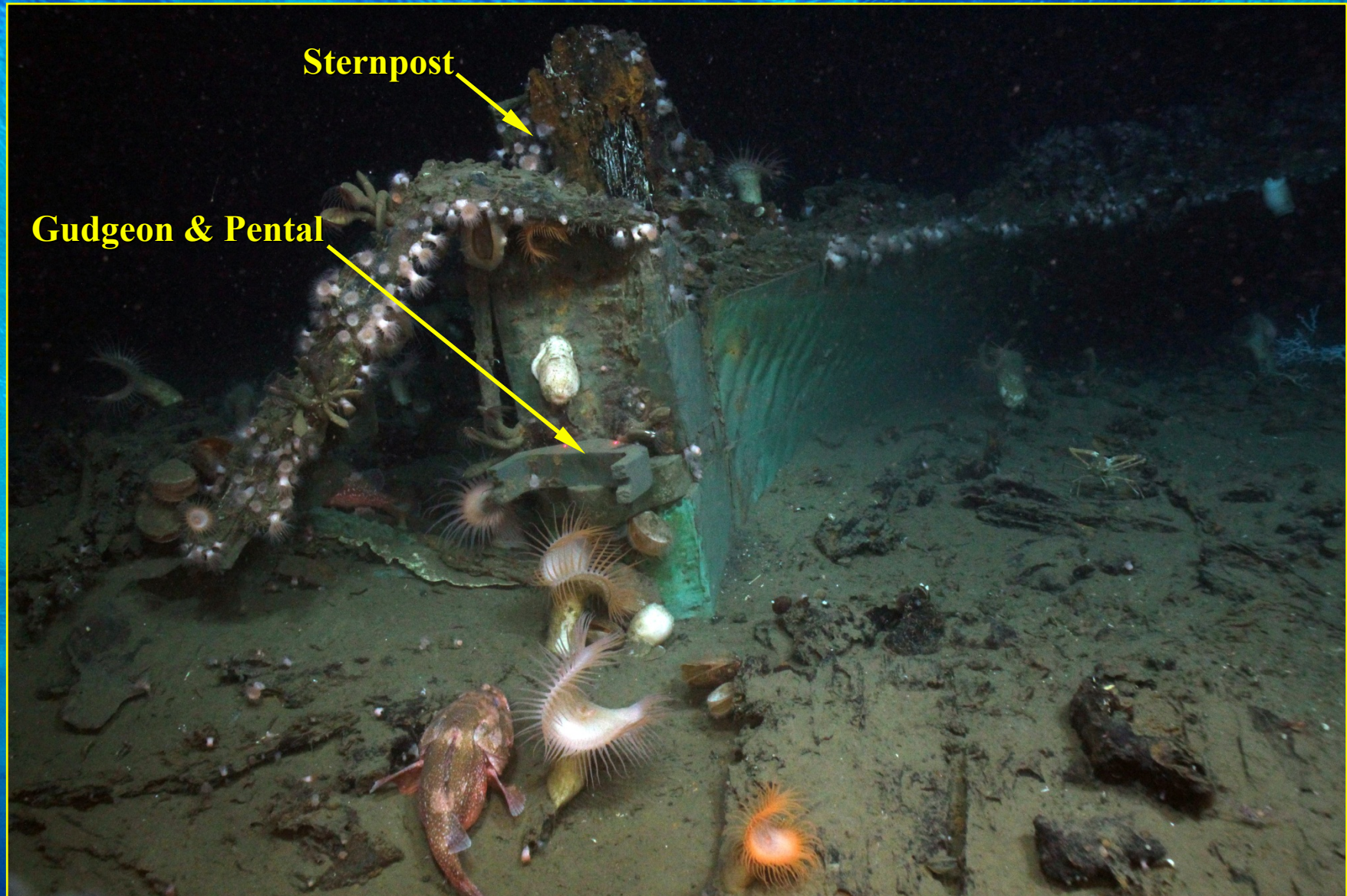
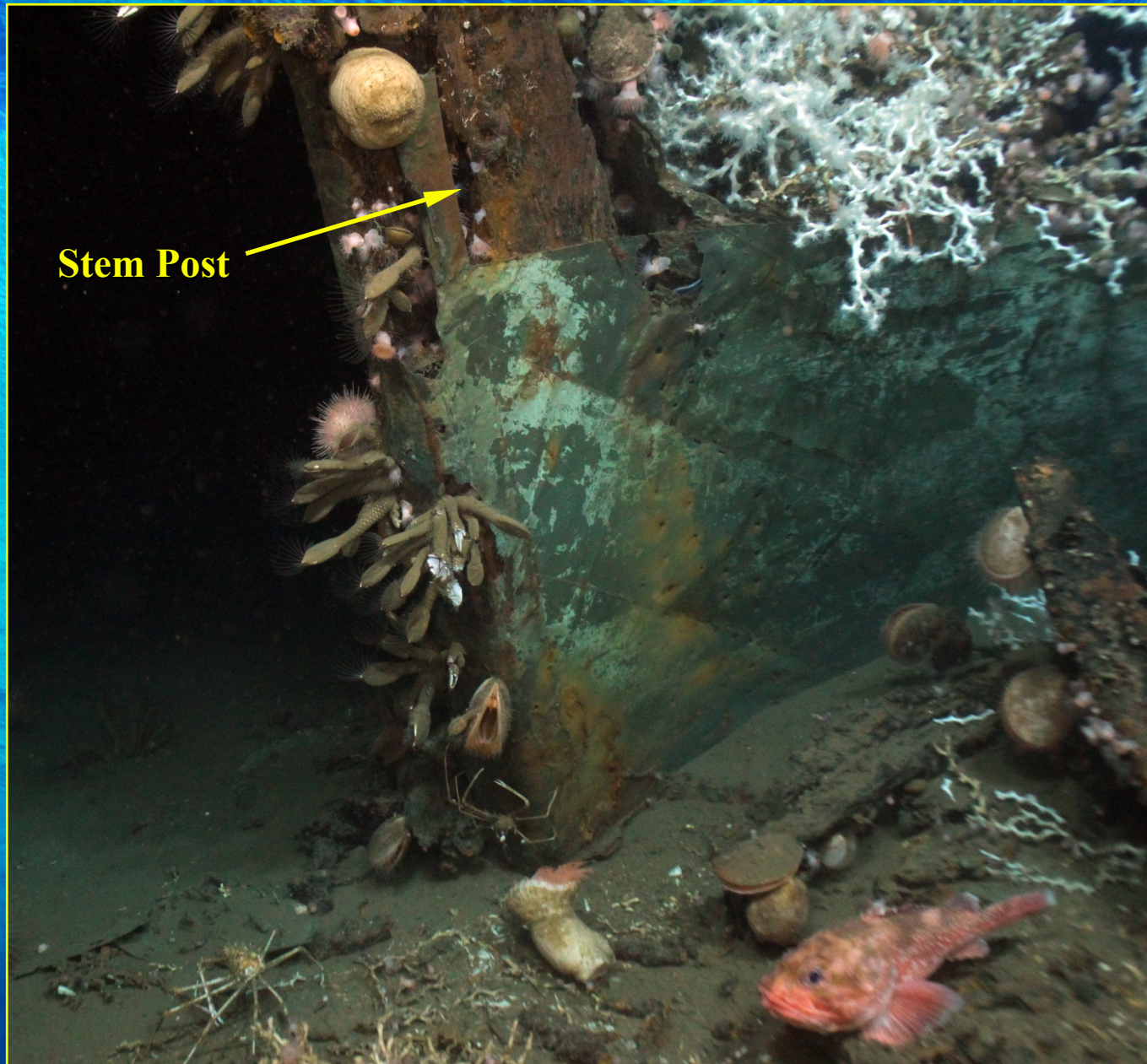


Photo Mosaic Draped over Bathymetry

Ewing Banks Wreck



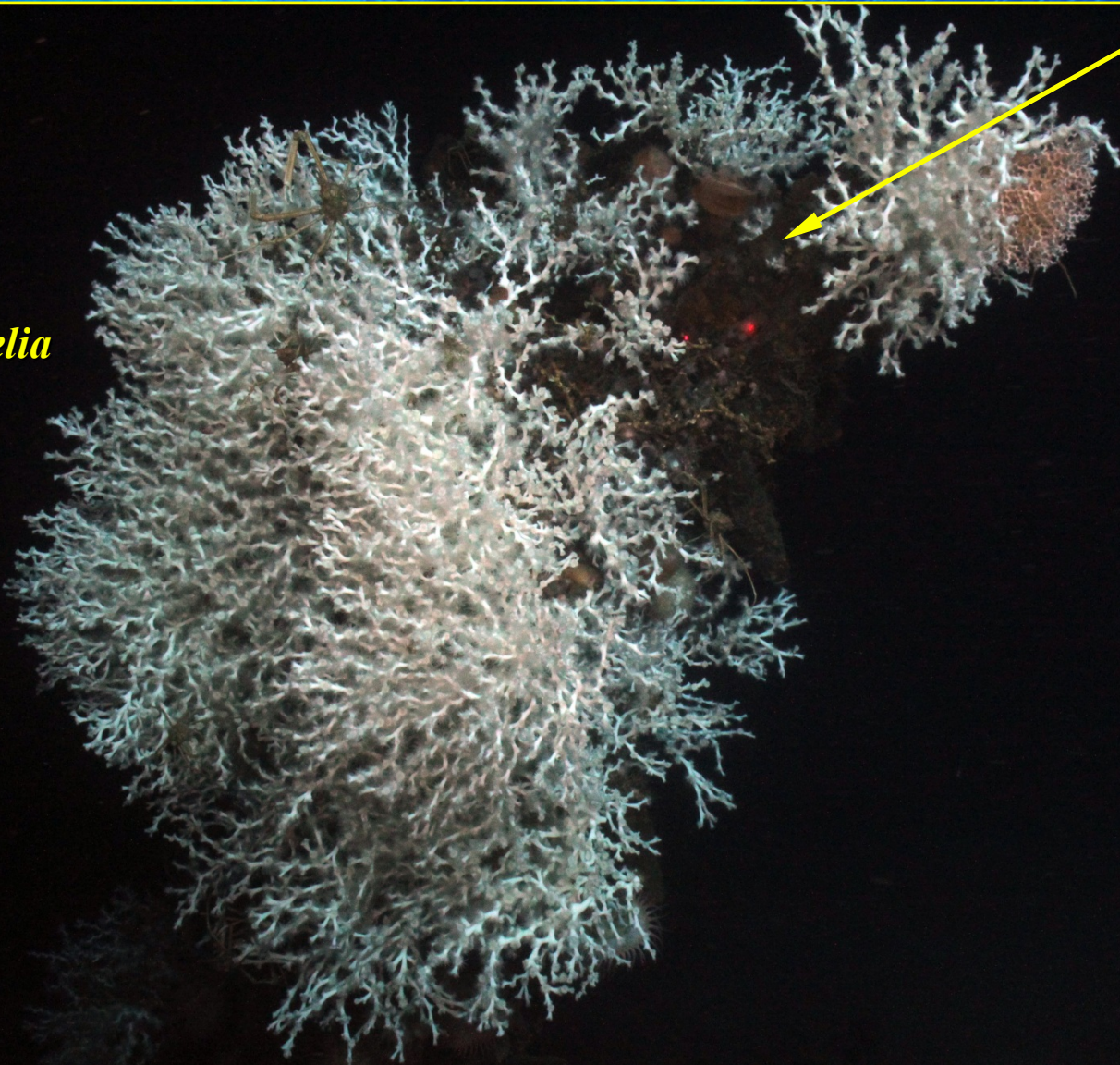
Ewing Banks Wreck



Ewing Banks Wreck

Lophelia

Stem Post



Ewing Banks Wreck



Ceramics



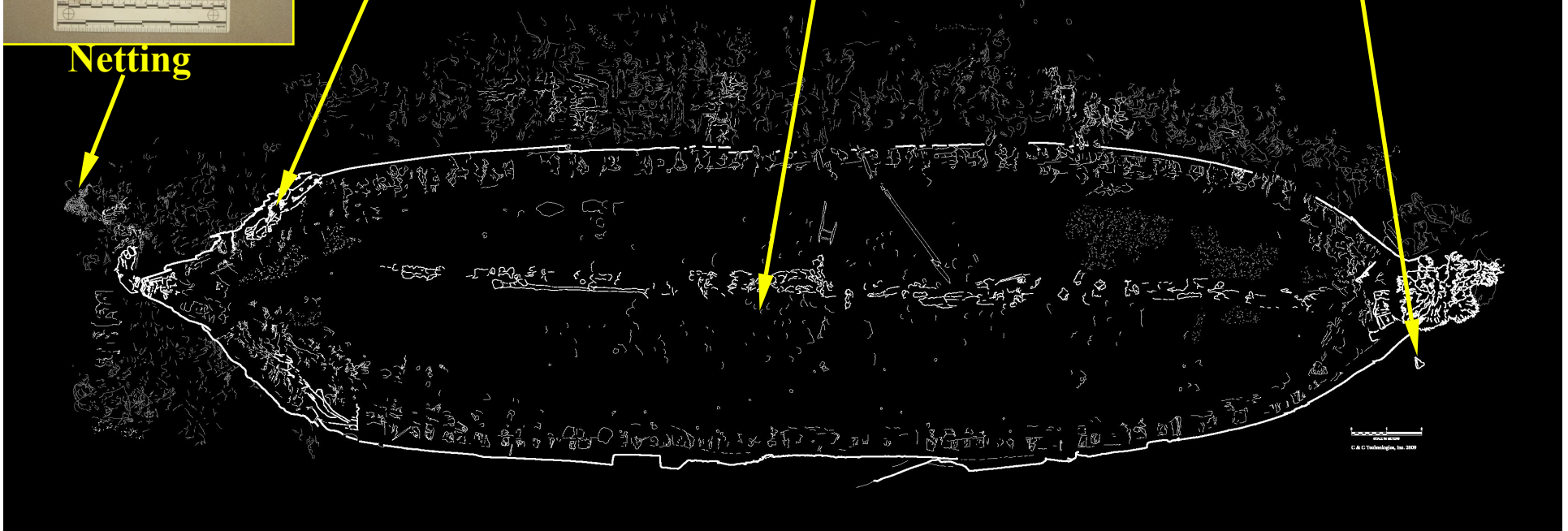
Copper Sheathing



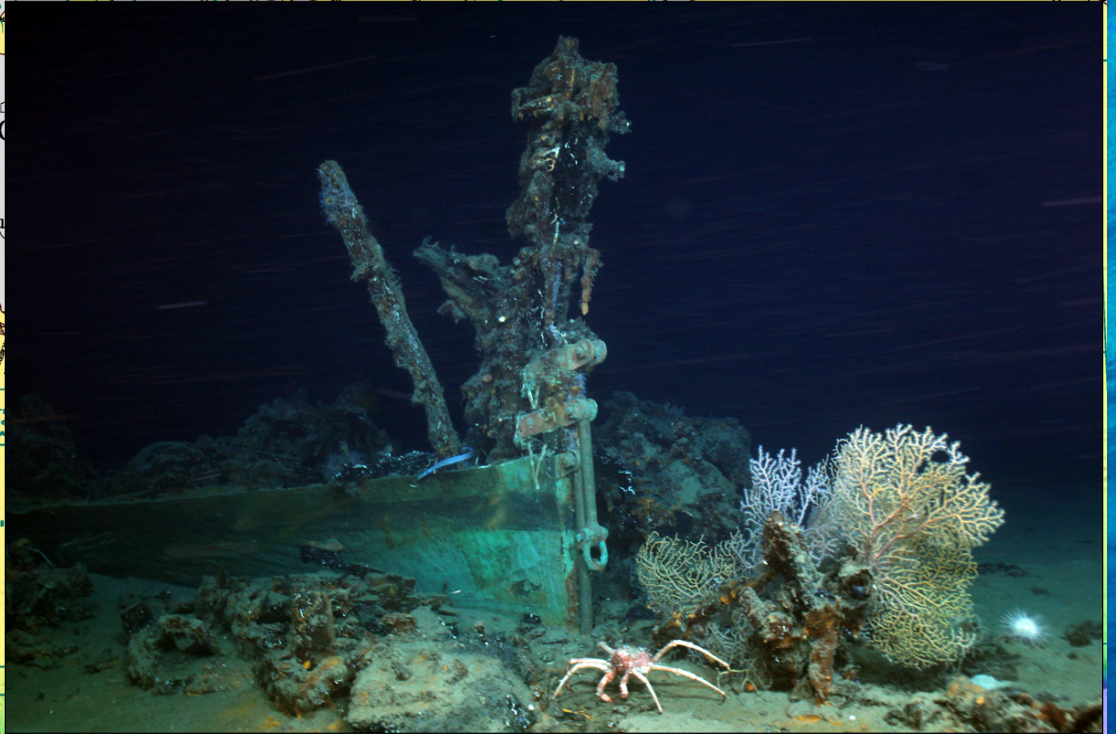
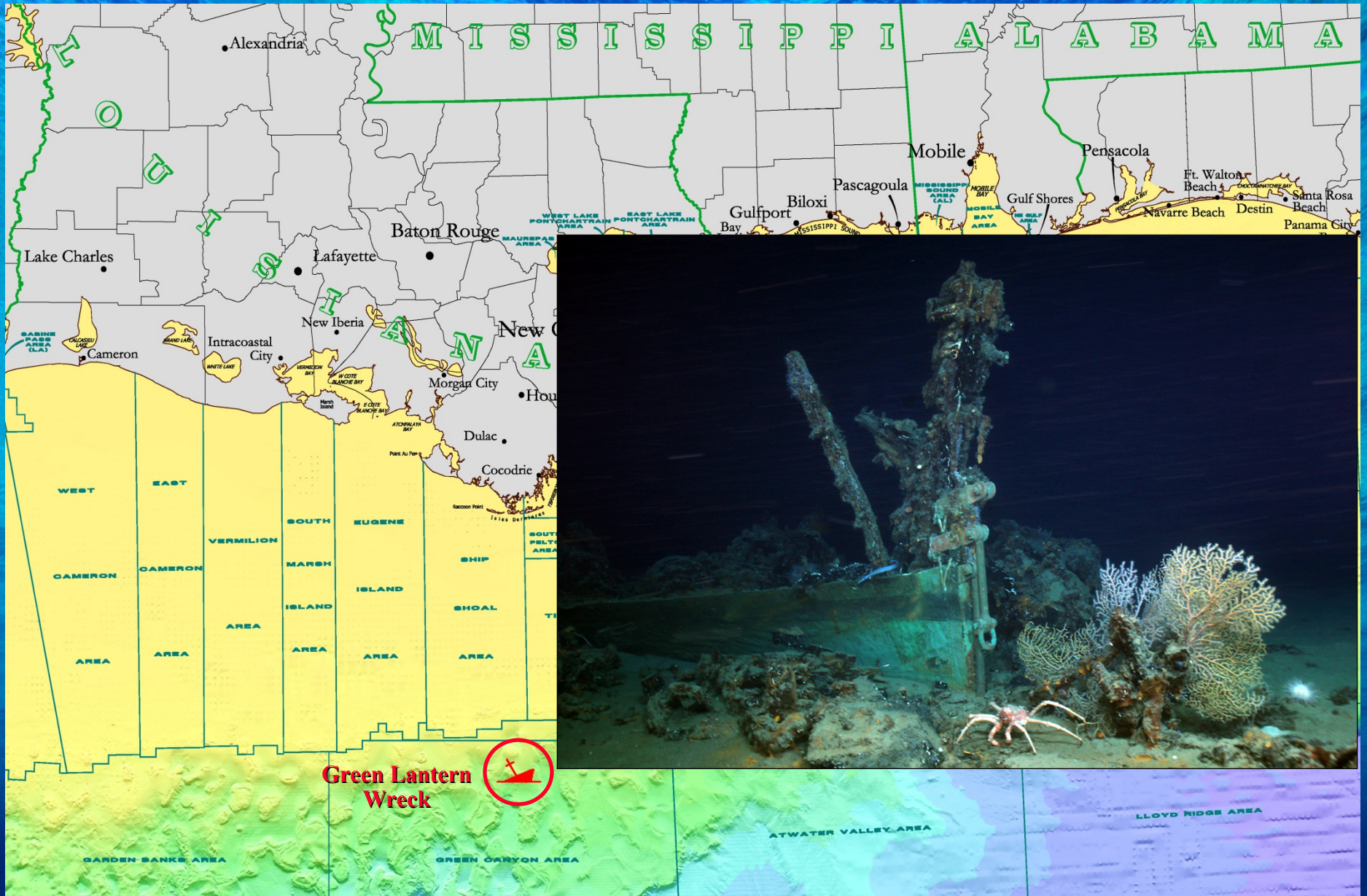
Ballast Stone



Netting



Green Lantern Wreck



Green Lantern Wreck

Discovered in 1996
Deep-Tow Survey

AUV Survey 2004
C-Surveyor I

ROV Investigation 2004
Industry

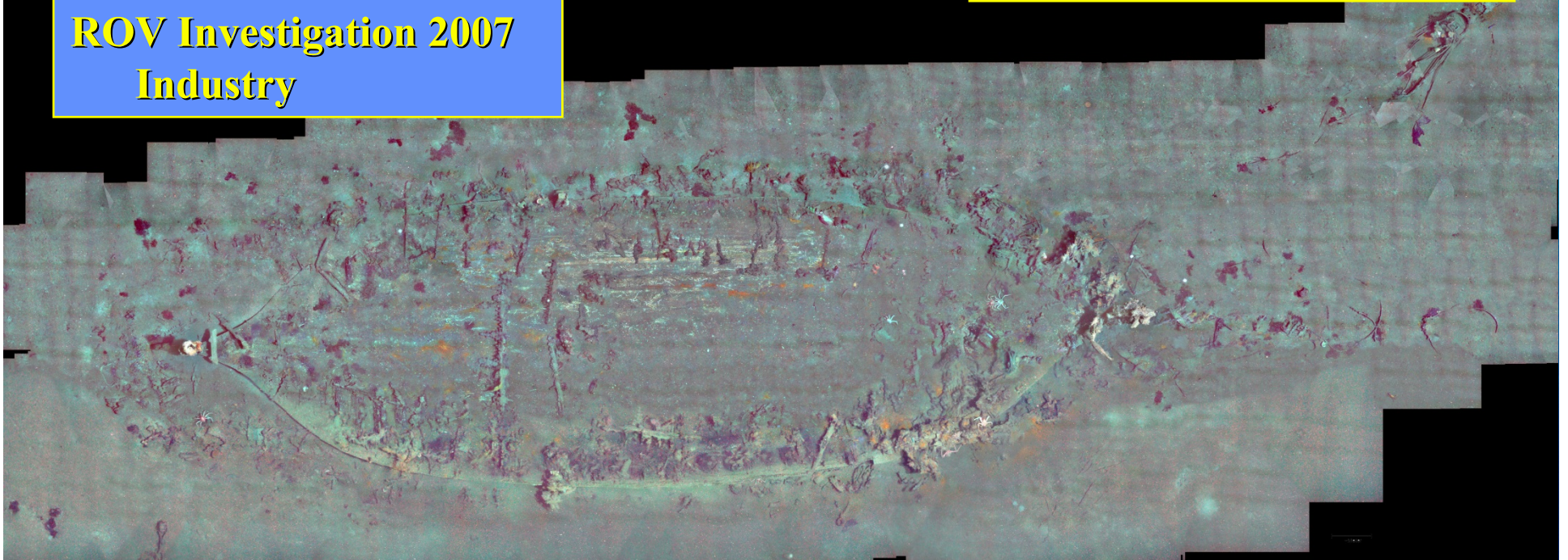
ROV Investigation 2007
Industry

Late 19th Century Sailing
Vessel

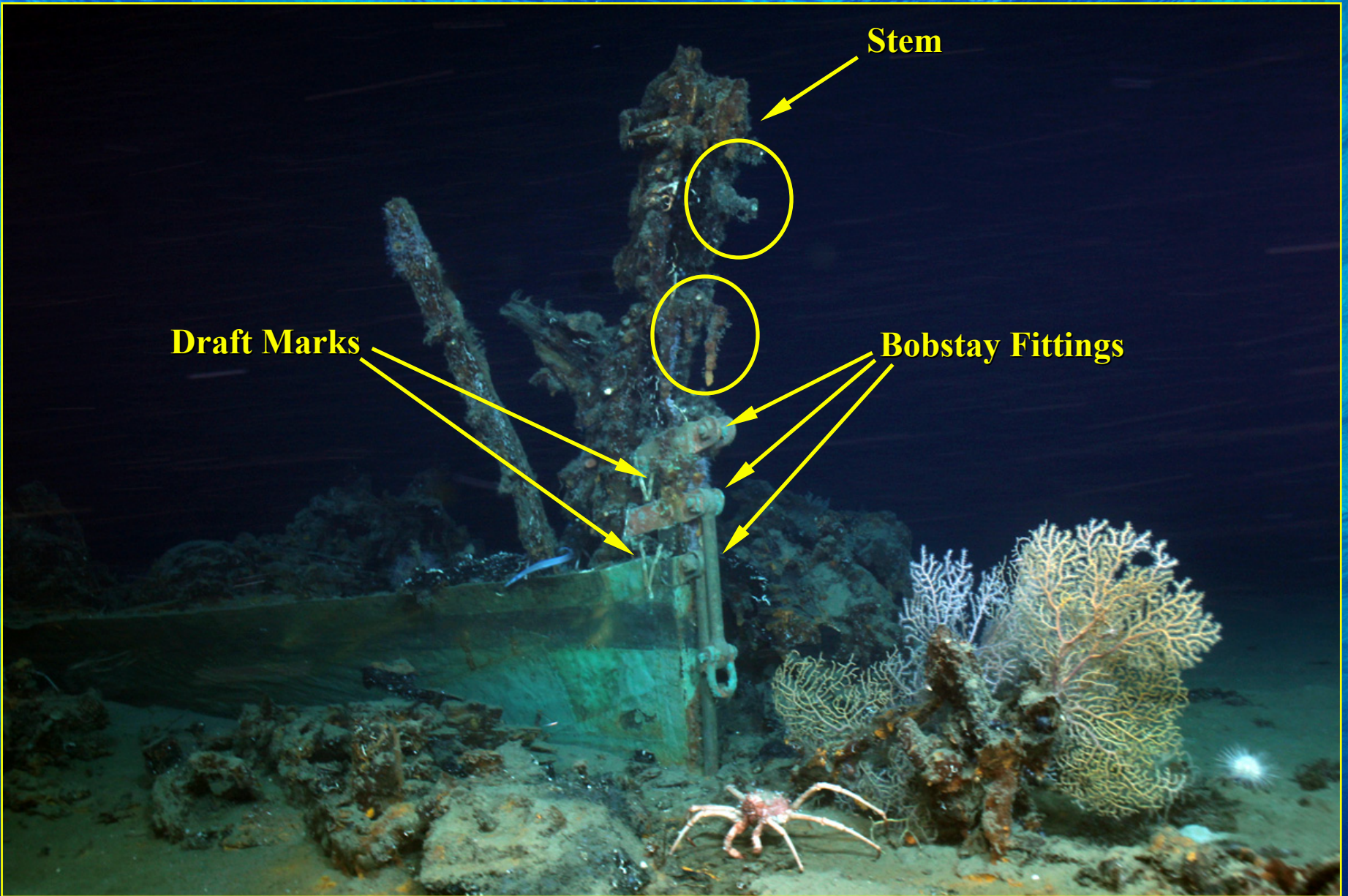
Copper Sheathed

70 feet long, 22 feet wide,
7 feet of relief

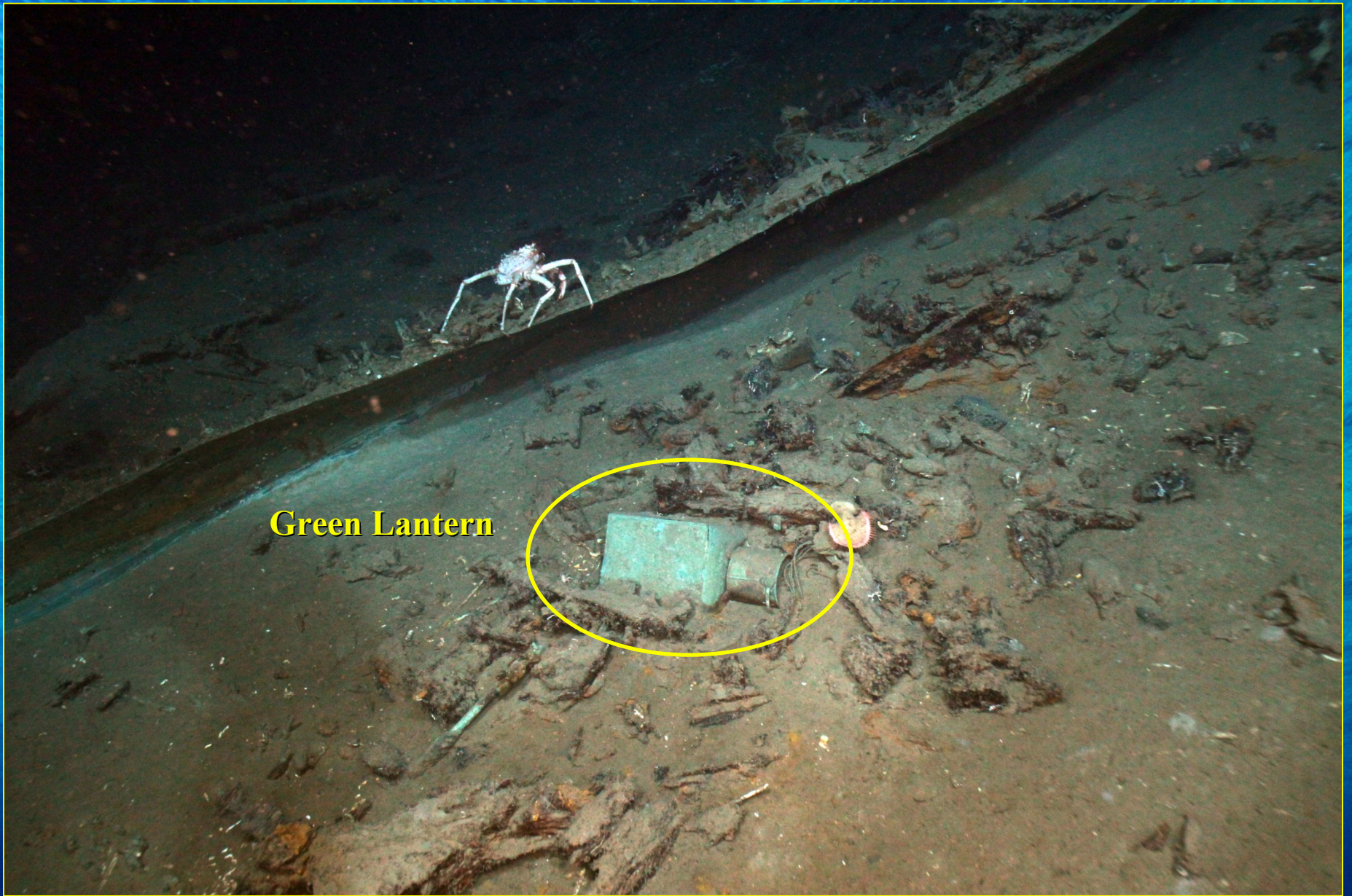
Depth 3,000 feet (915 m)



Green Lantern Wreck

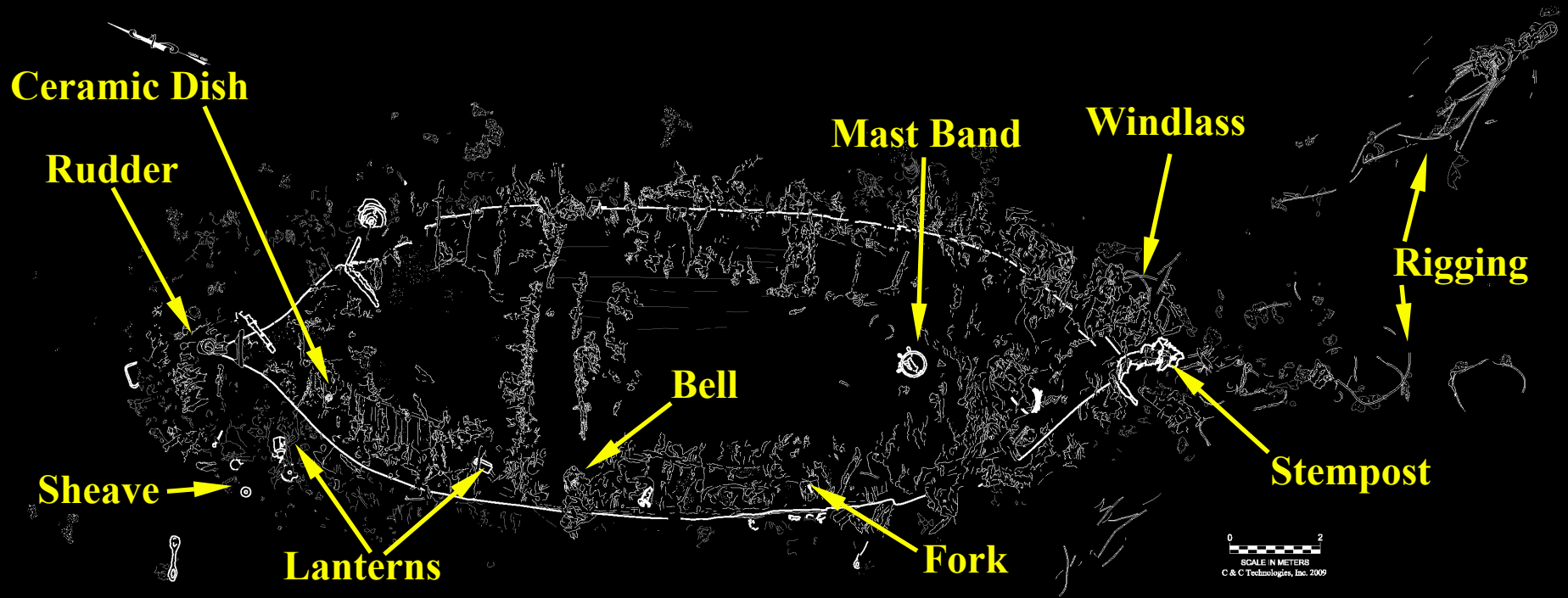


Green Lantern Wreck



Green Lantern

Green Lantern Wreck



Green Lantern Wreck



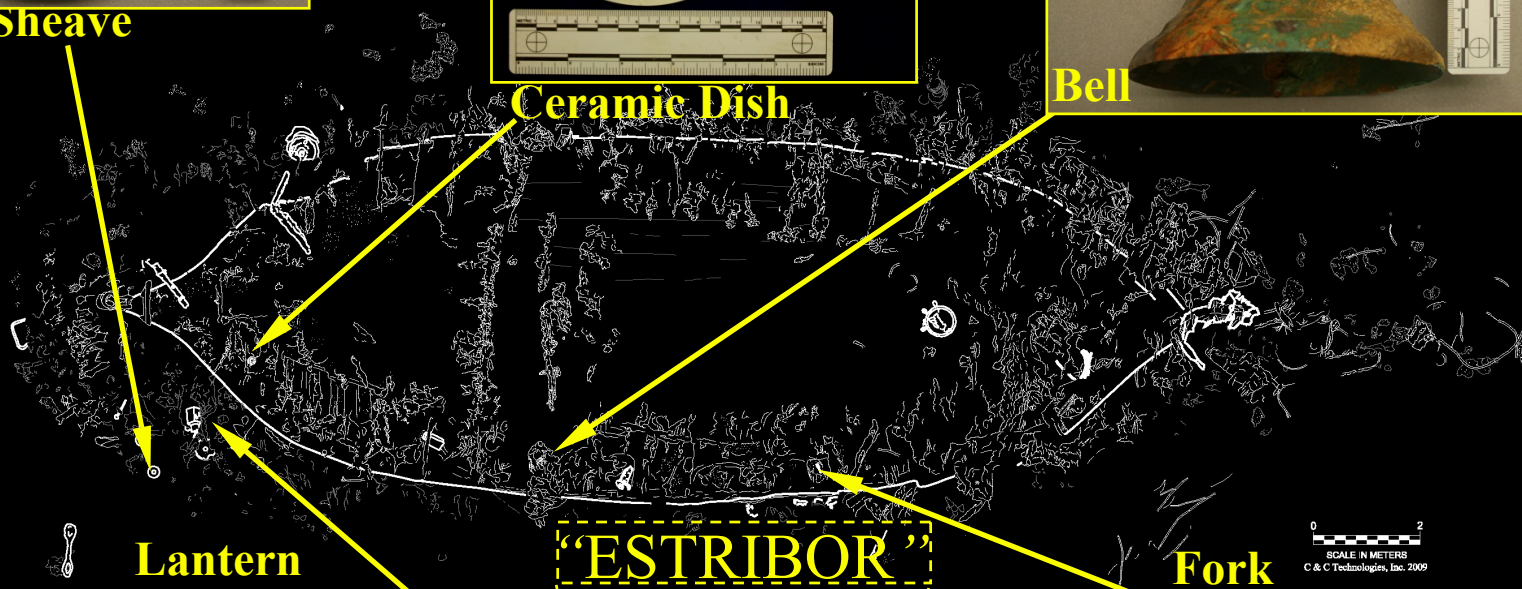
Sheave



Ceramic Dish



Bell



Lantern

**"ESTRIBOR"
Starboard**

Fork

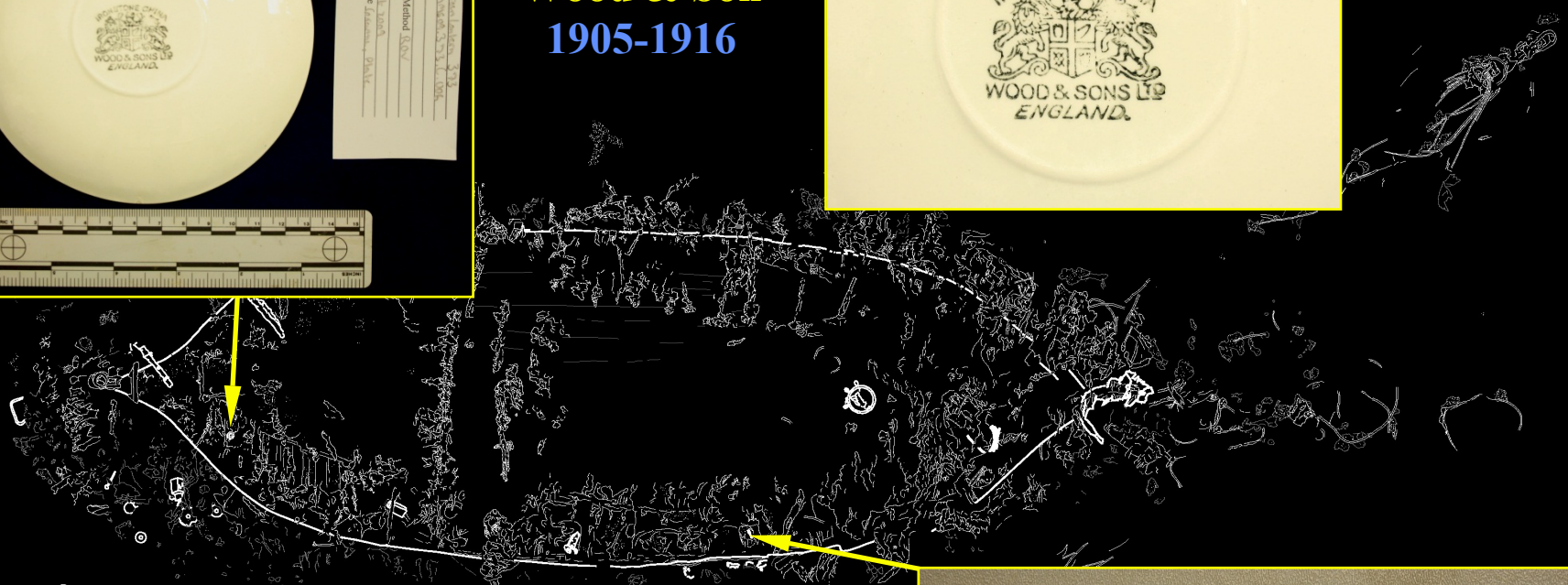


0 2
SCALE IN METERS
C & C Technologies, Inc. 2009

Green Lantern Wreck

Ceramic Dish

**Wood & Son
1905-1916**

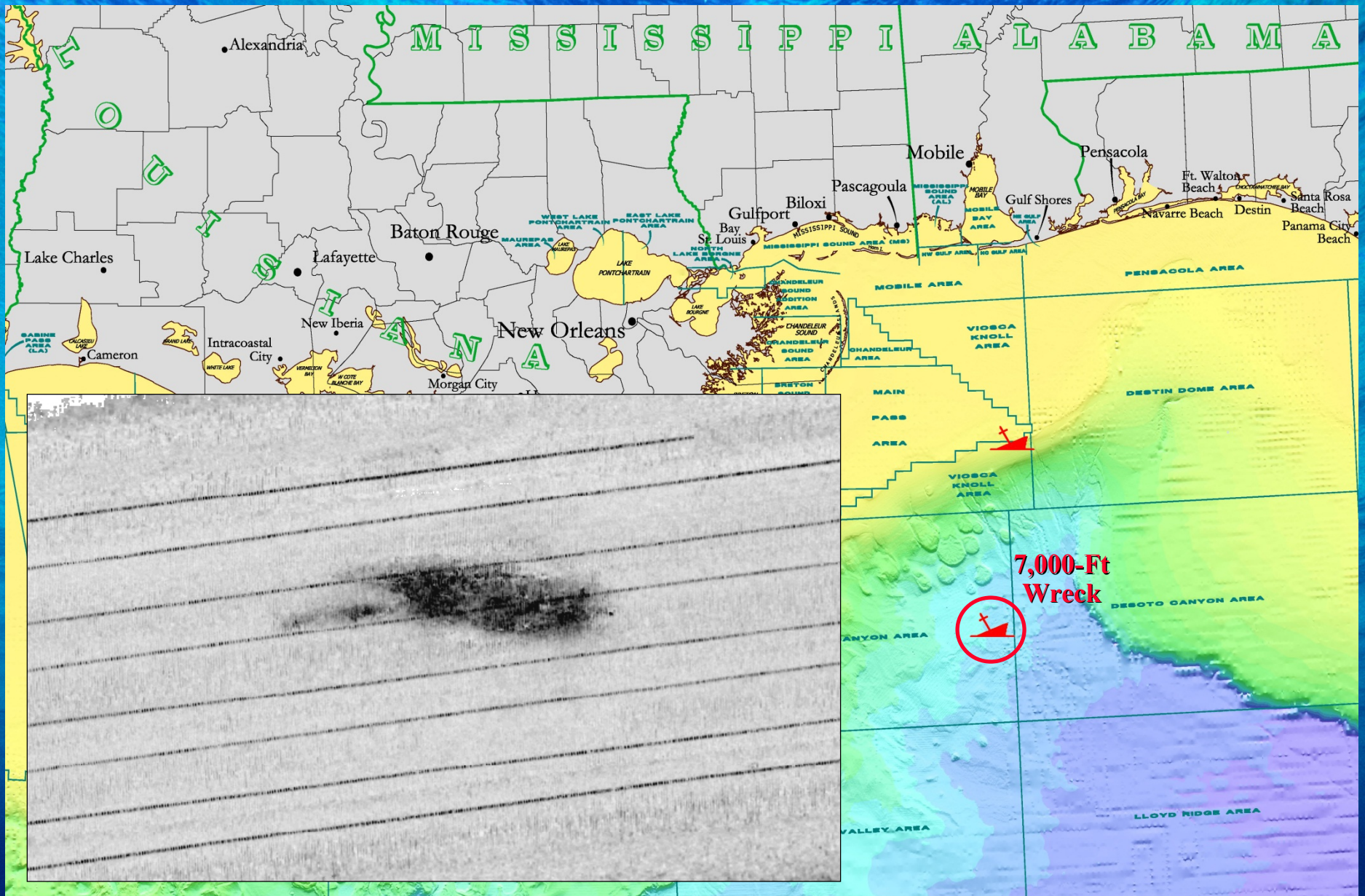


Fork

**Simeon L &
George H Rogers Co.
c. 1900-1918**



7,000-Foot Wreck



7,000-Foot Wreck

Discovered in 1986
Deep-Tow Survey

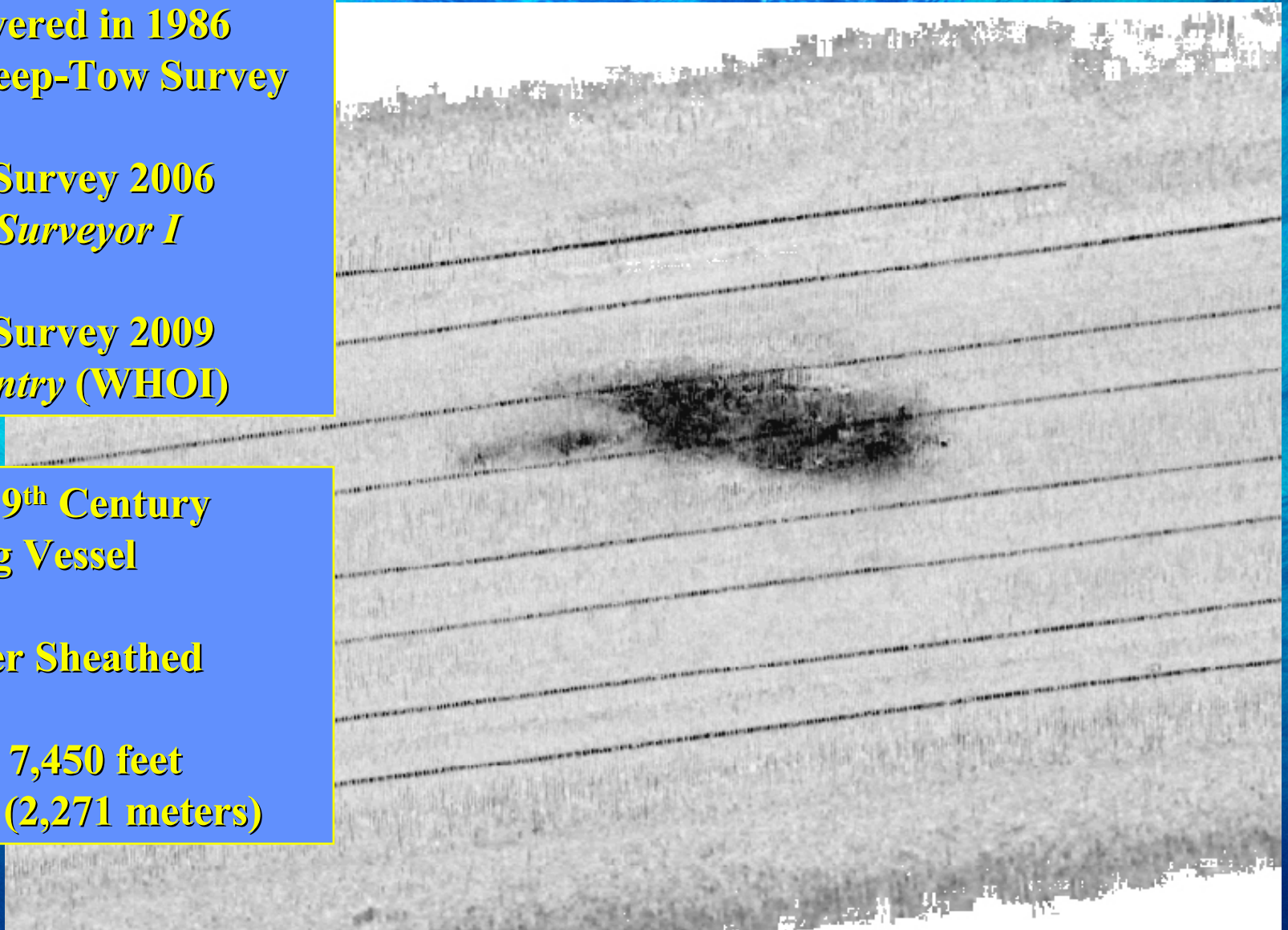
AUV Survey 2006
C-Surveyor I

AUV Survey 2009
Sentry (WHOI)

Late 19th Century
Sailing Vessel

Copper Sheathed

Depth 7,450 feet
(2,271 meters)



7,000-Foot Wreck

Discovered in 1986
Deep-Tow Survey

AUV Survey 2006
C-Surveyor I

AUV Survey 2009
Sentry (WHOI)

Late 19th Century
Sailing Vessel

Copper Sheathed

Depth 7,450 feet
(2,271 meters)

Multibeam Back Scatter

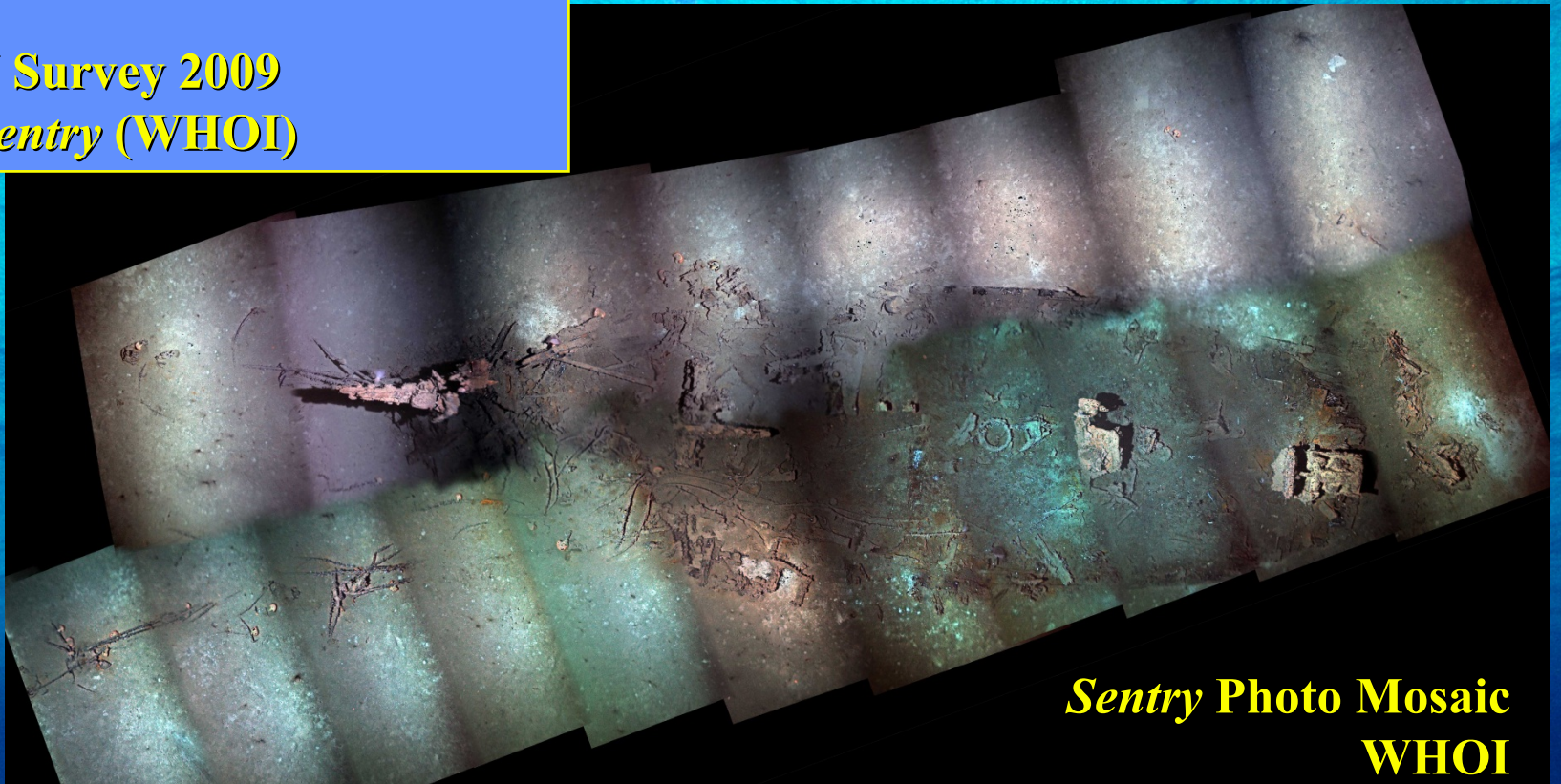


7,000-Foot Wreck

Discovered in 1986
Deep-Tow Survey

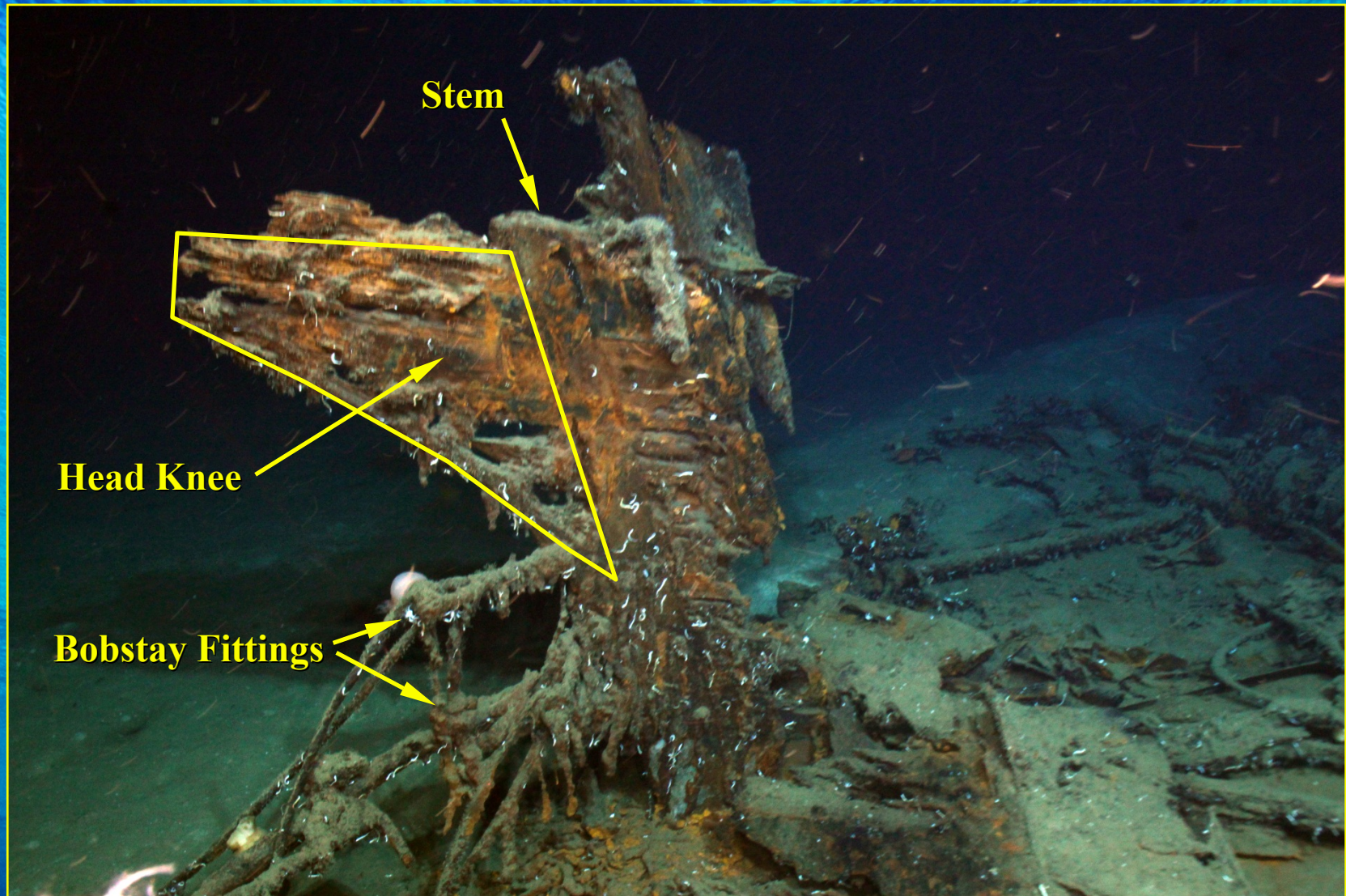
AUV Survey 2006
C-Surveyor I

AUV Survey 2009
Sentry (WHOI)

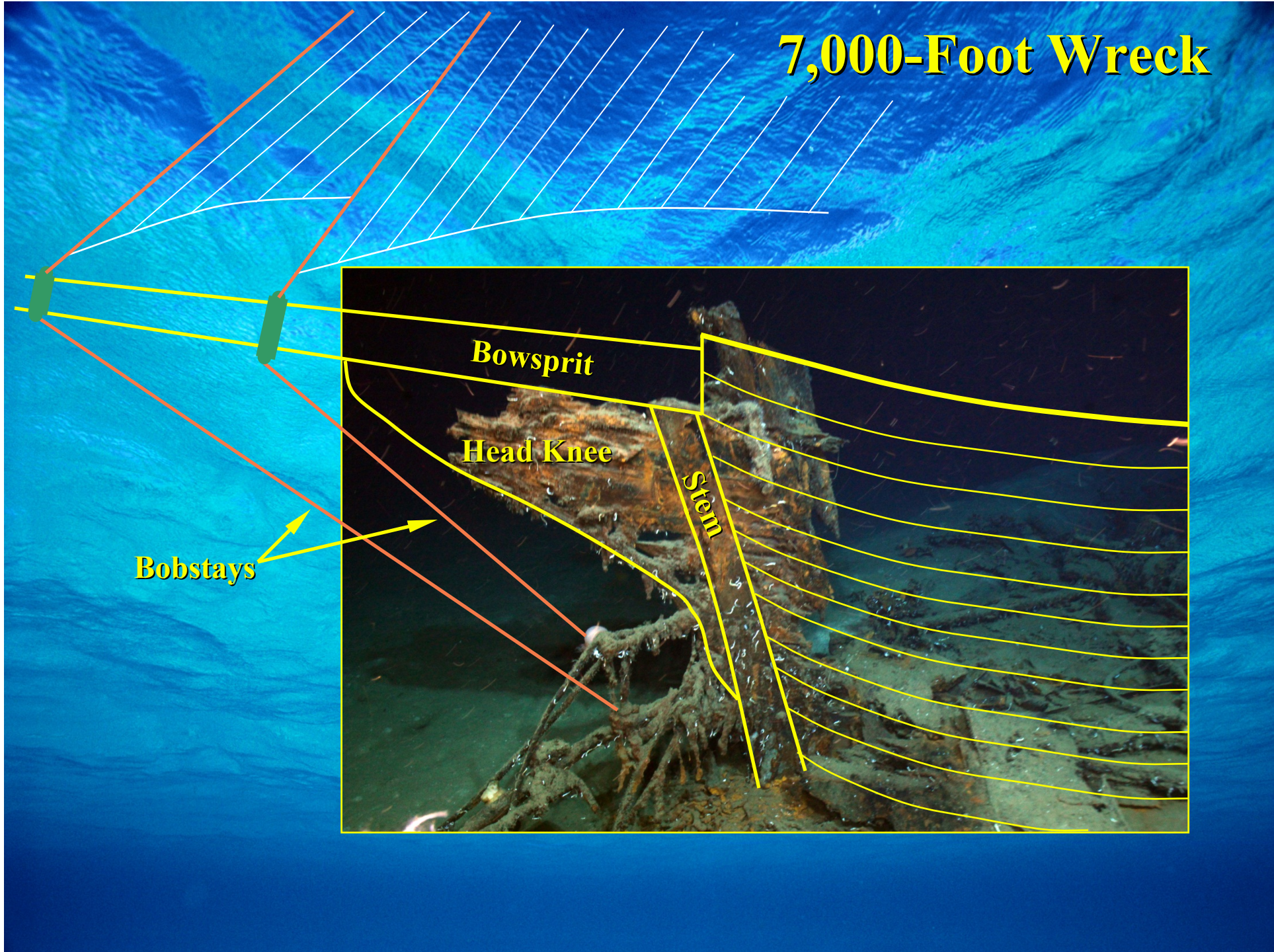


Sentry Photo Mosaic
WHOI

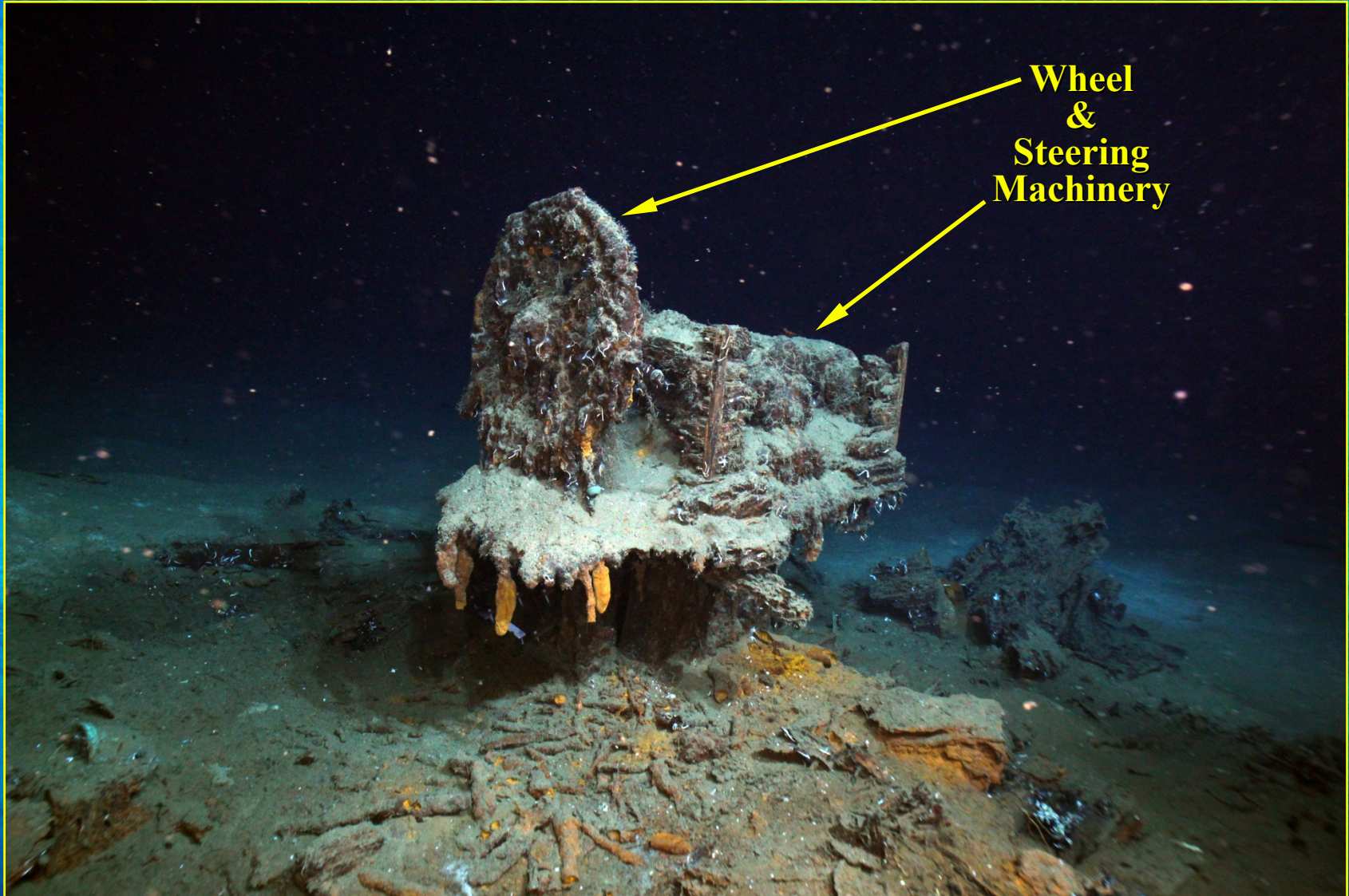
7,000-Foot Wreck



7,000-Foot Wreck

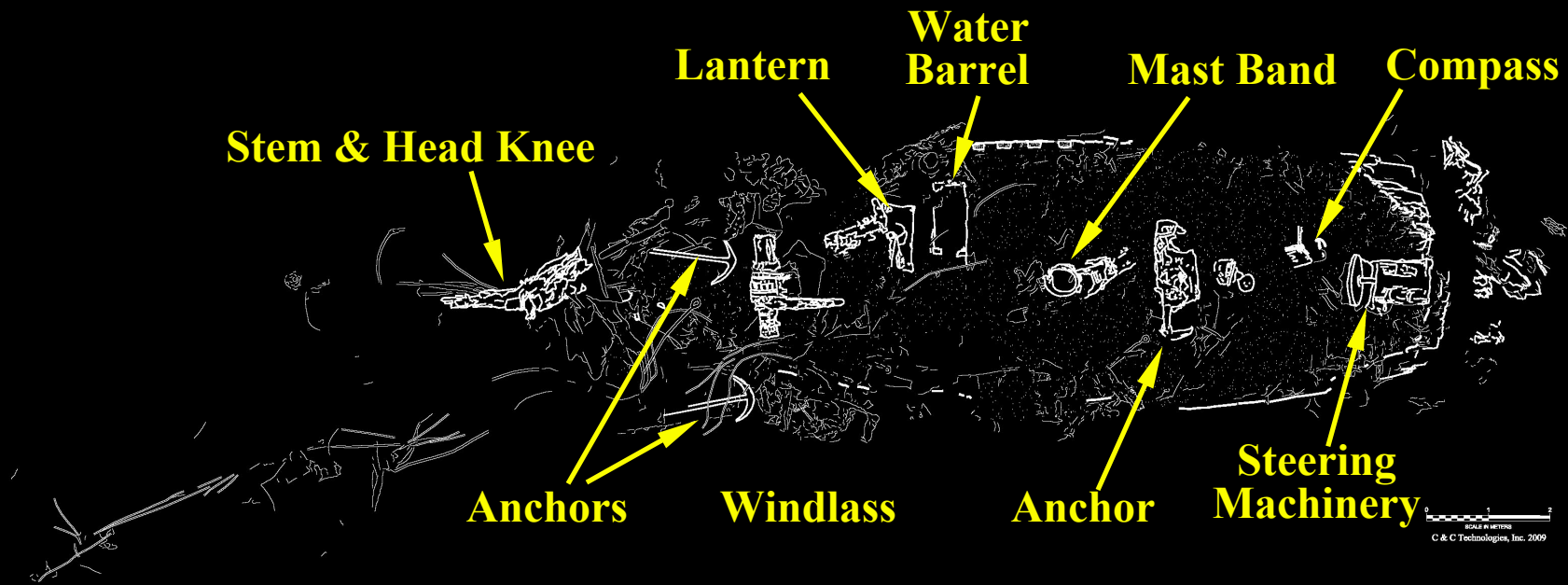
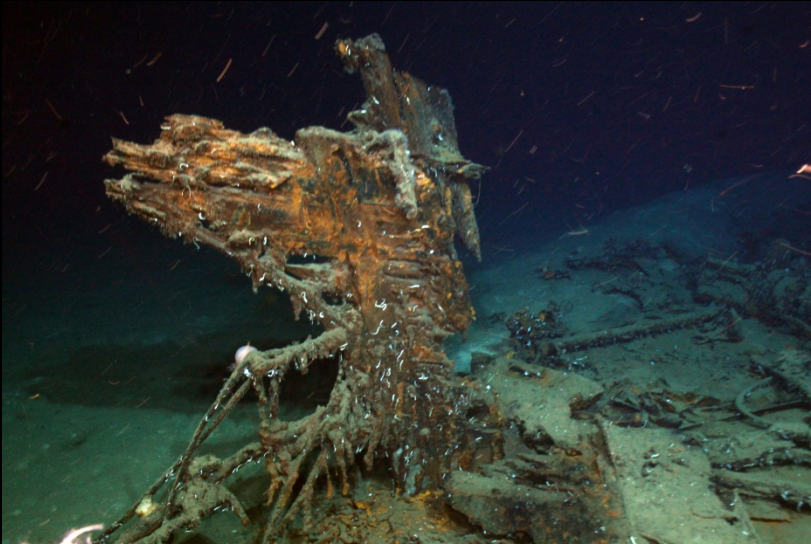


7,000-Foot Wreck



Wheel
&
Steering
Machinery

7,000-Foot Wreck



7,000-Foot Wreck



Compass



Copper Sheathing



7,000-Foot Wreck



**D. BAKER
BOSTON
Nov. 3, 1874
June 1, 1875**

Compass



Small Pilot Schooner



Bureau of Ocean Energy Management, Regulation, and Enforcement (BOEM)

National Oceanic & Atmospheric Administration, Ocean Exploration & Research (NOAA OER)

National Oceanographic Partnership Program (NOPP)

TDI Brooks International and C & C Technologies, Inc.

Questions ?

