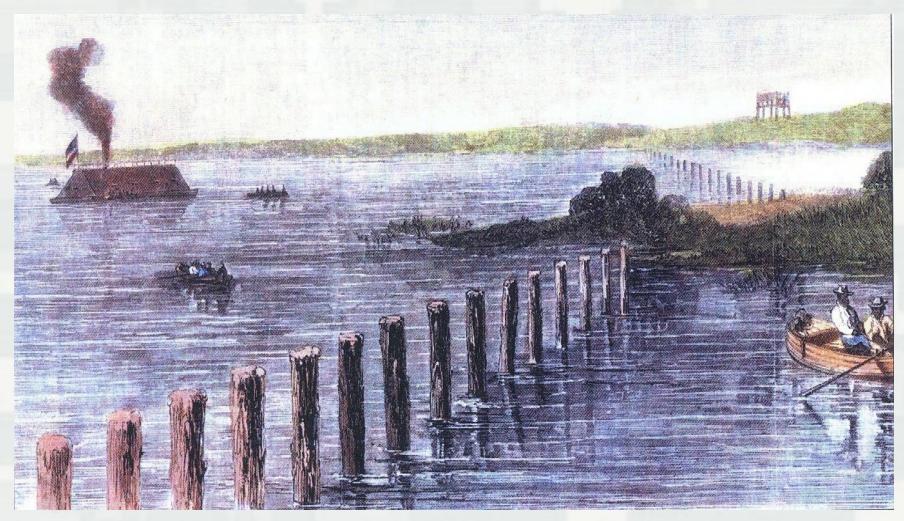
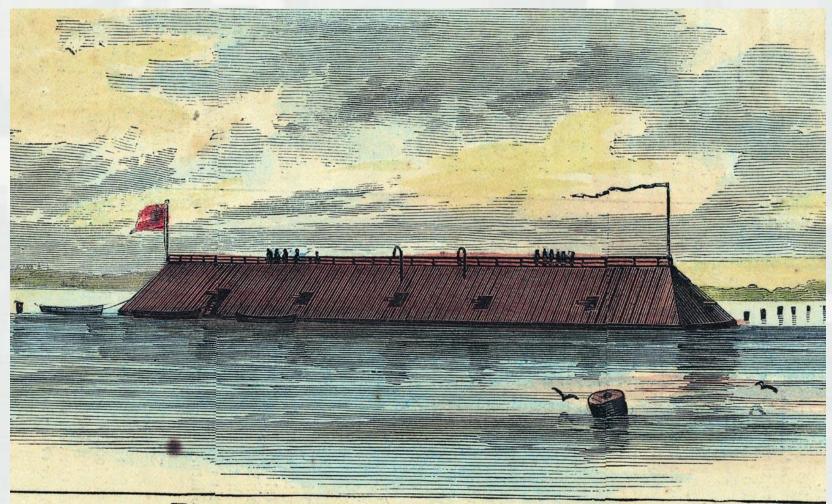
#### CSS Georgia and Research that Preceded Mitigation







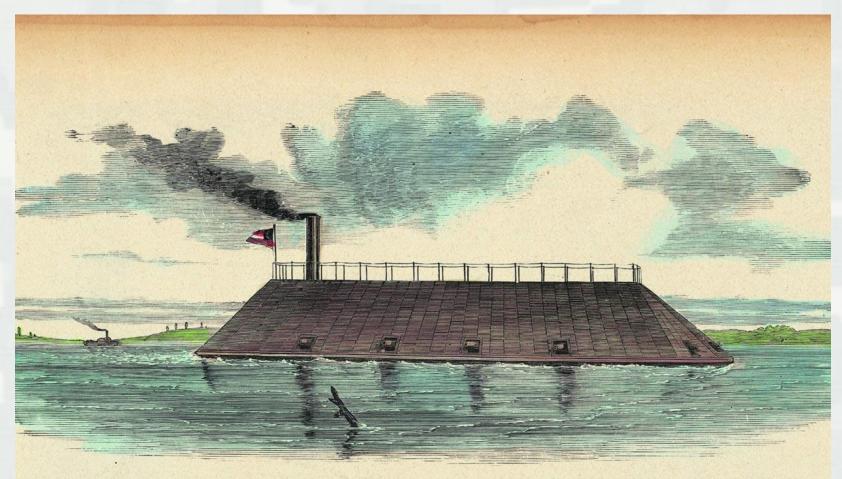




The Rebel Tron-clad "Georgia."





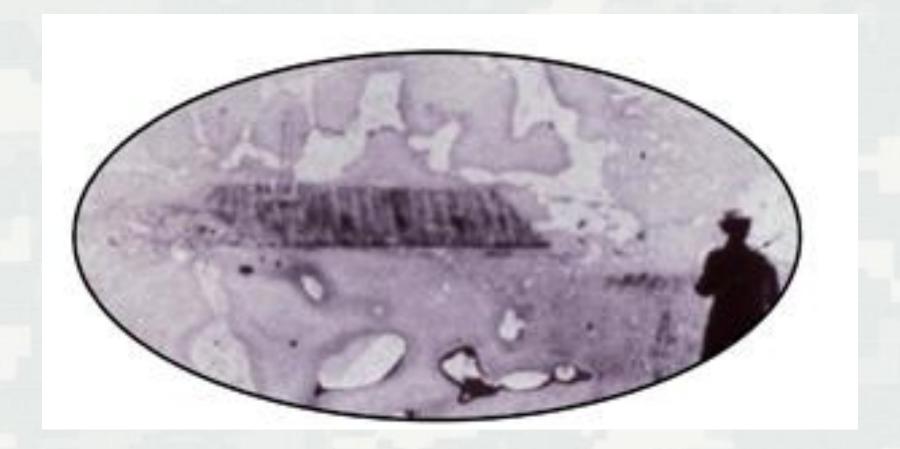


CONFEDERATE IRONCLAD RAM "GEORGIA" LYING OFF FORT JACKSON, SAVANNAH RIVER, GA., DECEMBER, 1862.





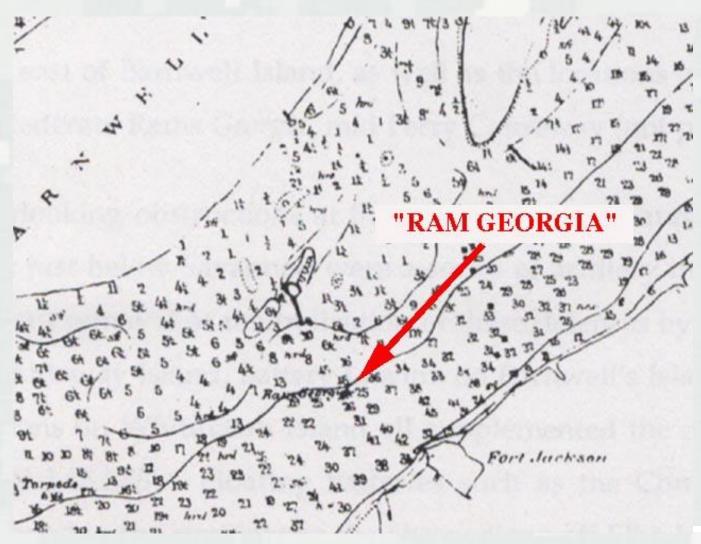
## Photographic Image of CSS Georgia (or NOT)







### 1872 U.S. Coast Survey Chart Showing CSS Georgia





BUILDING STRONG®



CSS Georgia Wreck Remains Struck by Dredge St. Louis in 1968





### 1978 USACE/SCIAA Wreck Site Reconnaissance







## Railroad Rail Sample Recovered by TAMU/USACE in 1979

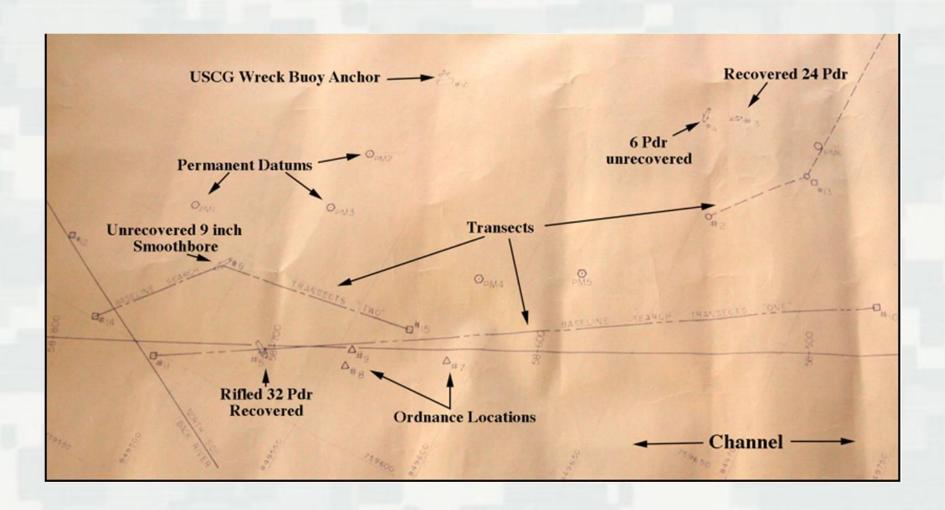






## Small Cannon Recovered in 1986 by USACE Divers





#### 1986 USACE Site Plan





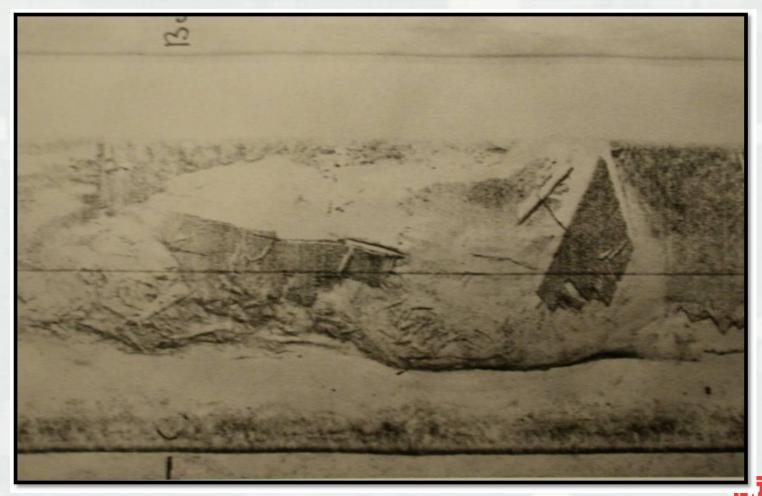
## 1986 USACE Sonar Survey







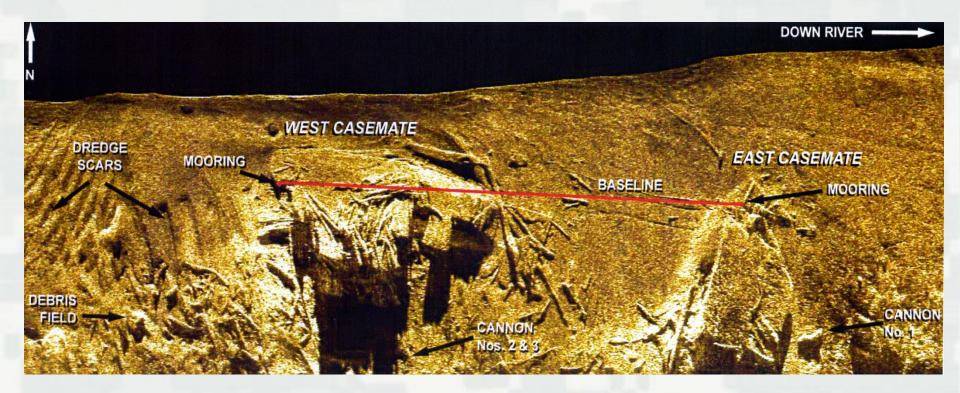
## 1986 Sonar Image of the CSS Georgia Site





**BUILDING STRONG**<sub>®</sub>

### 2003 Survey Web Baseline on Sidescan Sonar Wreck Site Image







# R/V Nautilus











BUILDING STRONG®

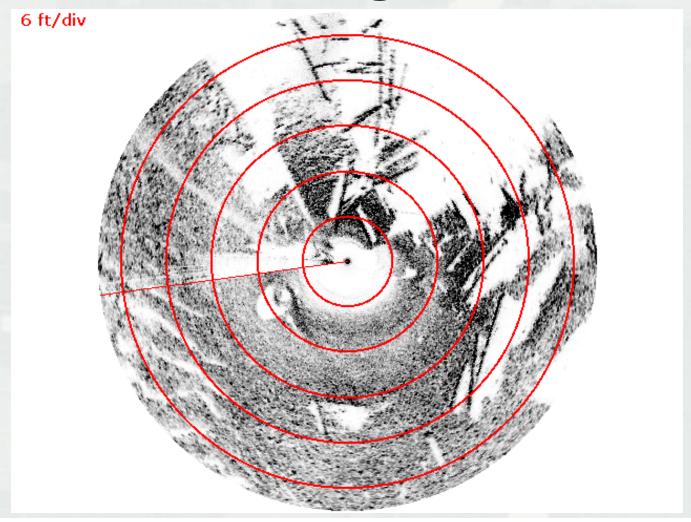
## **Aquameter Transducer Array**







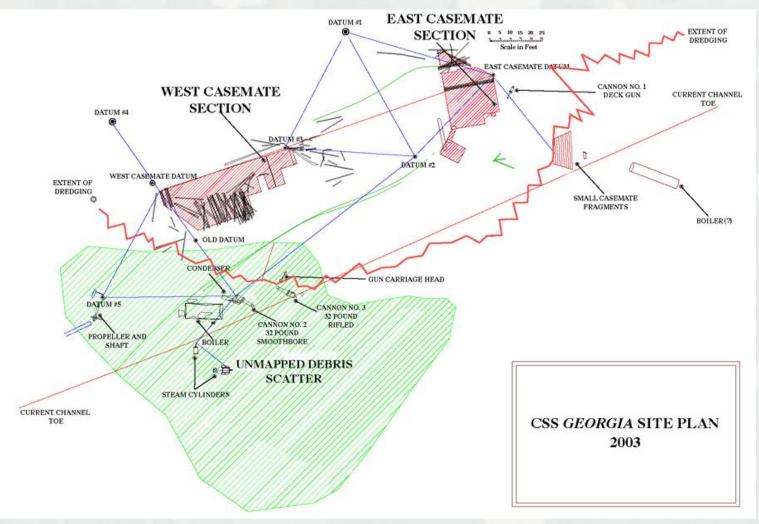
# Mesotech Sector Scan Sonar Image





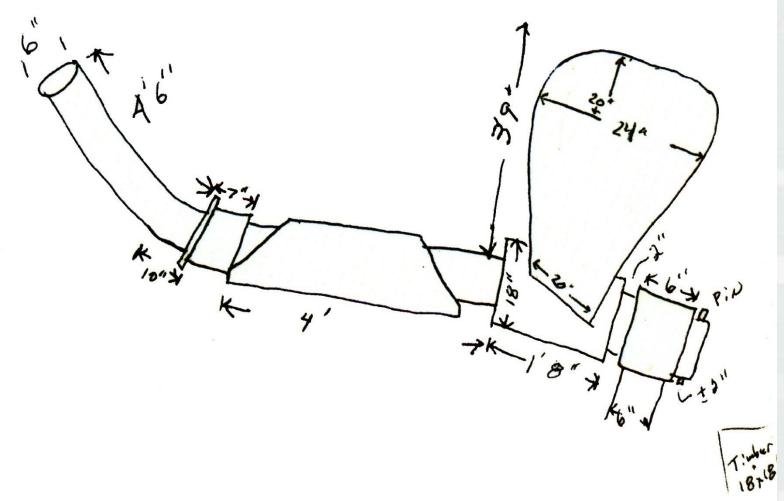


## 2003 Site Plan for the CSS Georgia











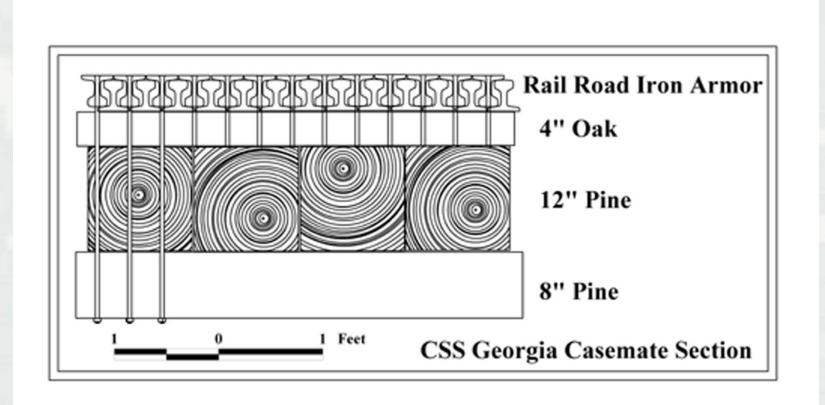






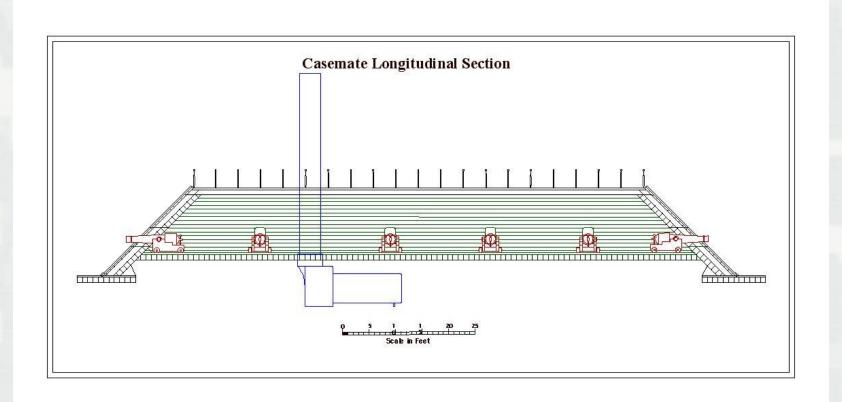


## **Casemate Armor Configuration**



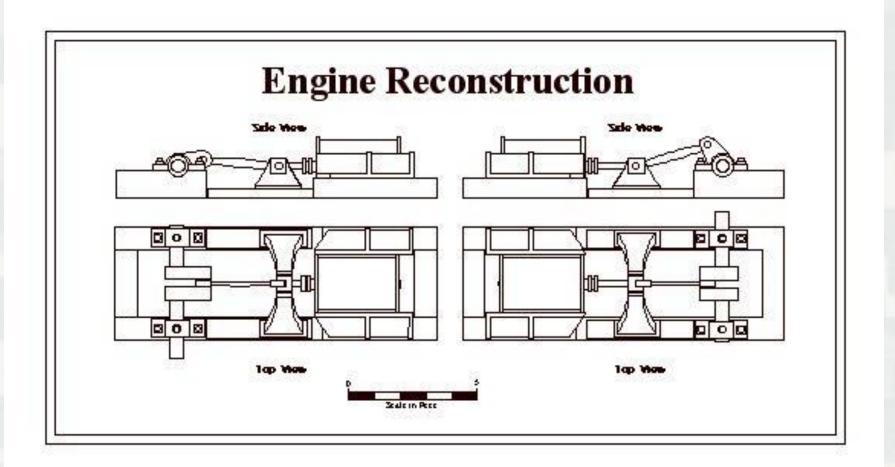






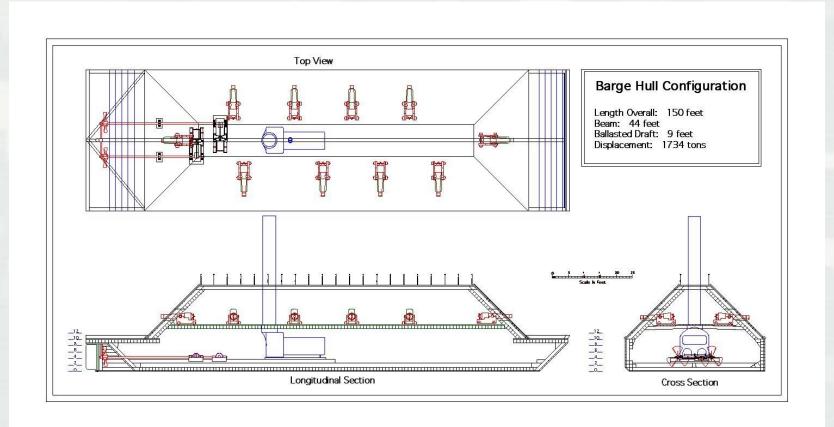






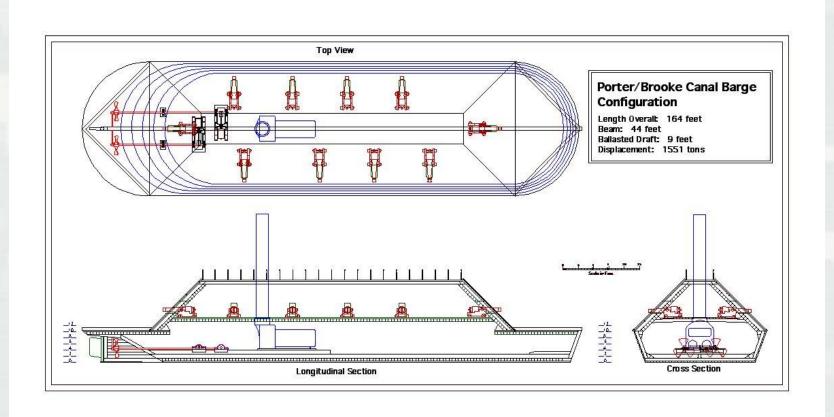








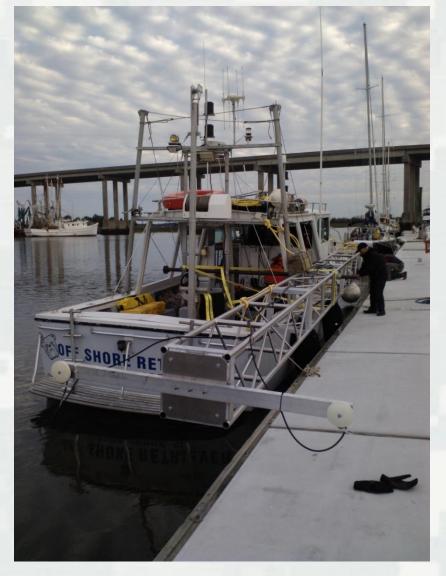








## Rigging for 2013 Advanced Underwater Surveys (ADUS)



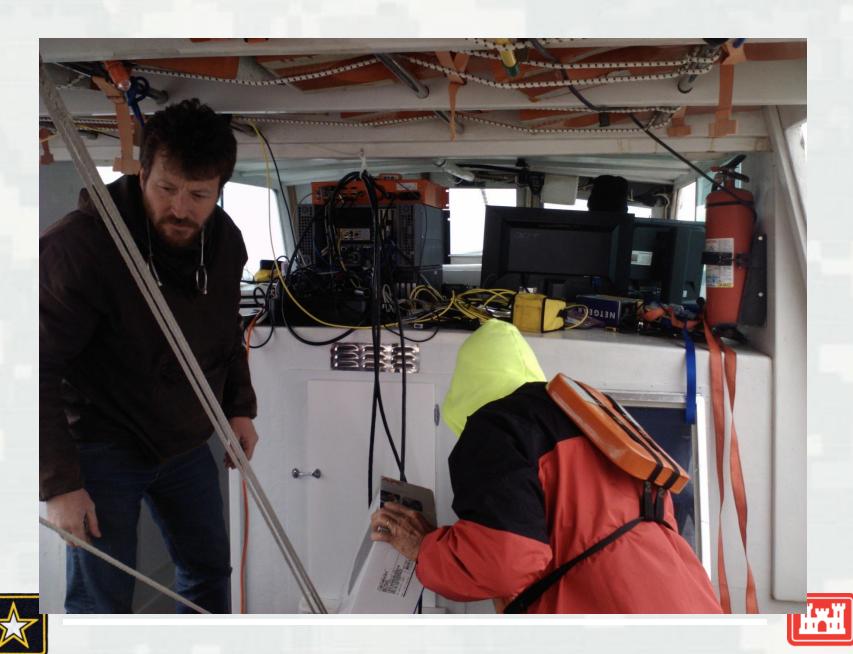




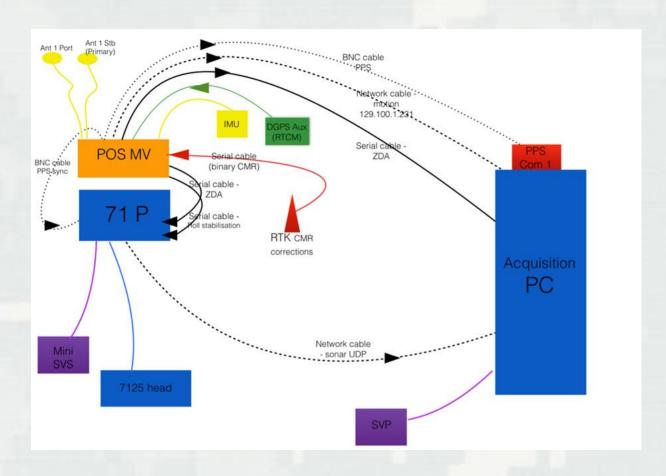




 $\textbf{BUILDING STRONG}_{\tiny{\textbf{\tiny B}}}$ 



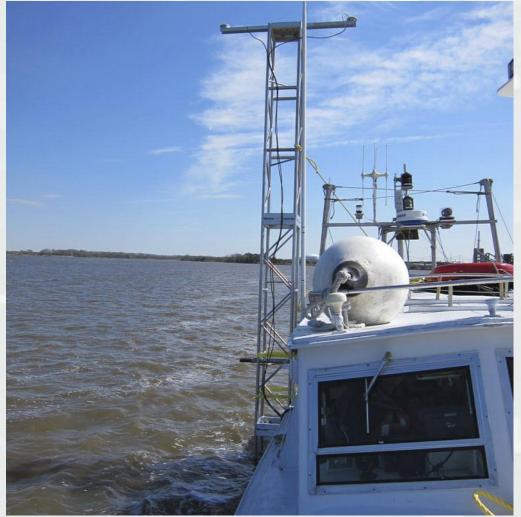
## **ADUS Equipment Configuration**







## ADUS System Rotated for Operation











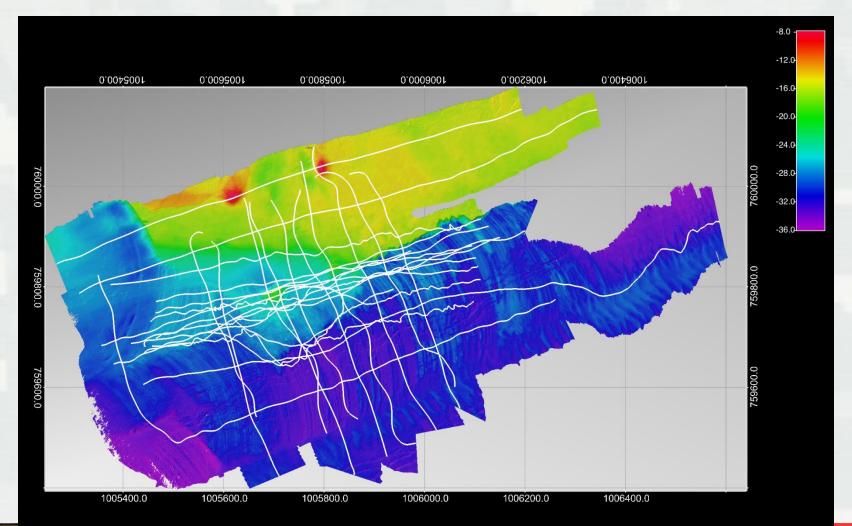






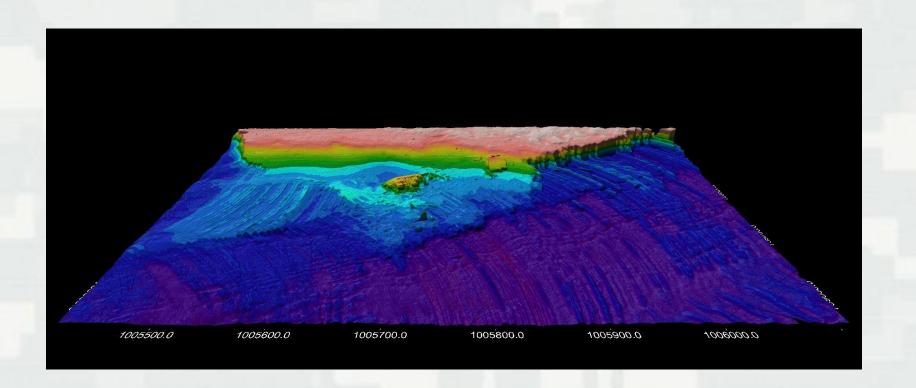


### **ADUS Survey Tracklines**





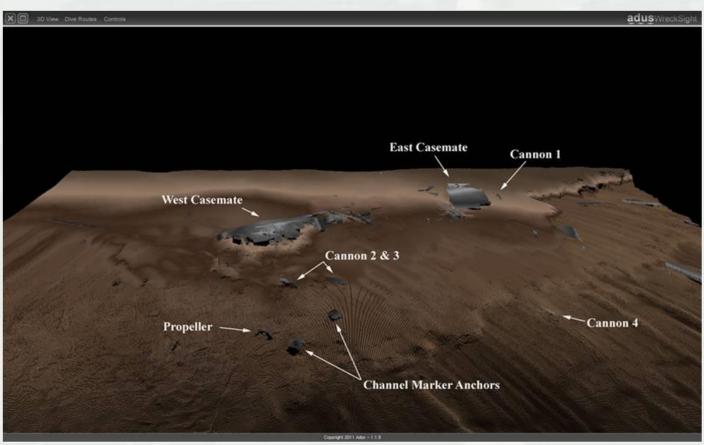








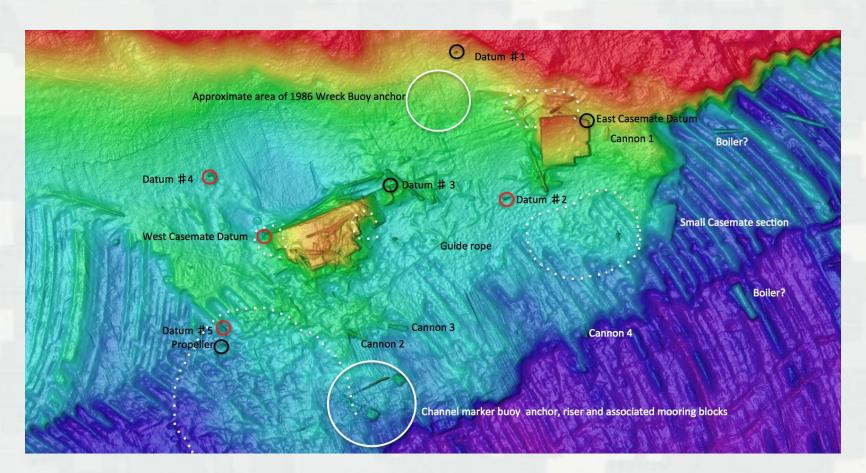
## WreckView 3-D Image of CSS Georgia Site Looking North







# ADUS Survey Wreck Site 2-D Plan







#### Barge on CSS Georgia Site 2014











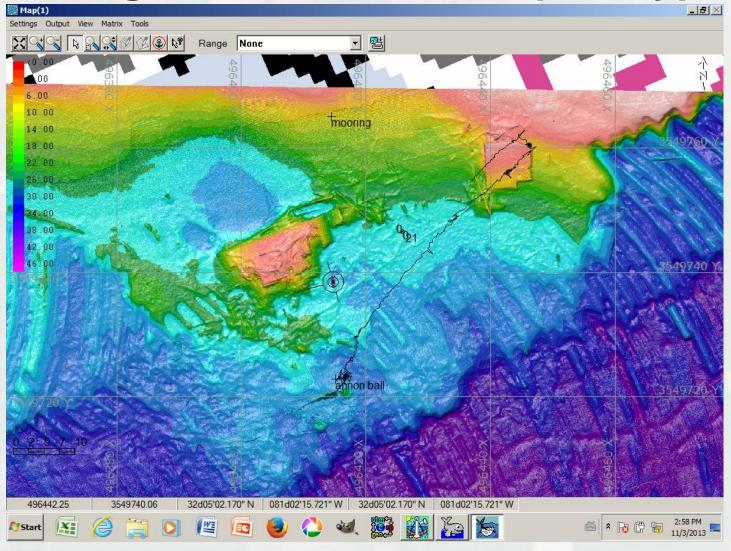


#### MDSU Diver With USBL Transducer



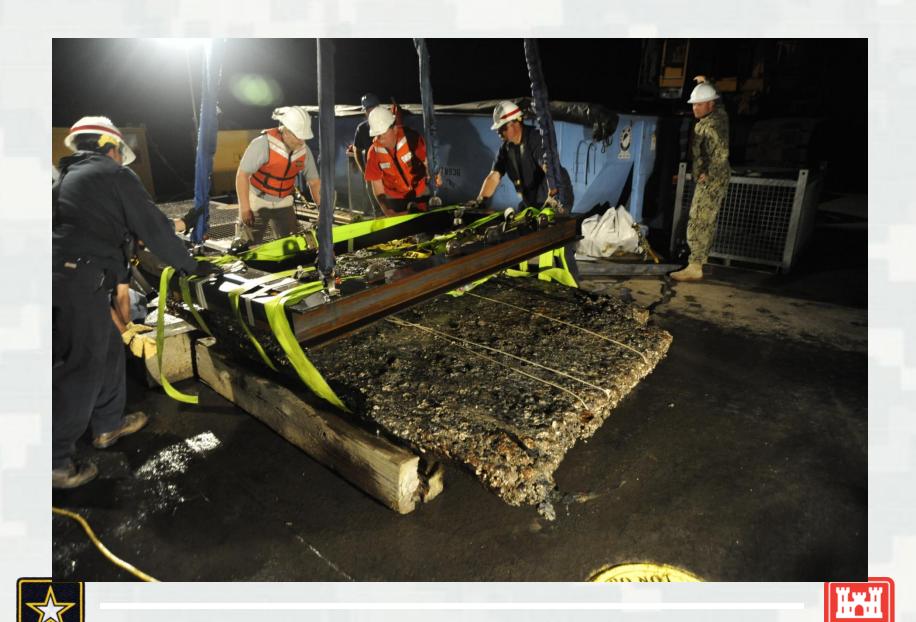


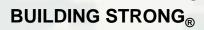
#### **Tracking Diver Over Site Map in Hypack**



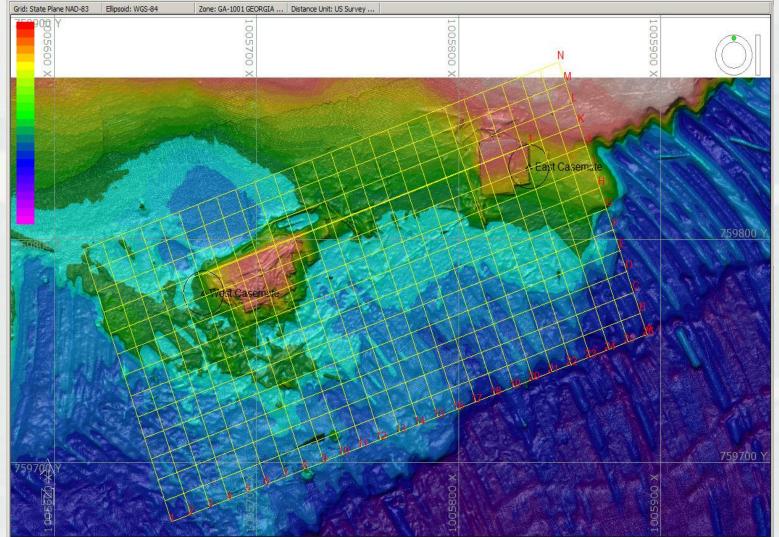








#### 2015 Electronic Grid Established on ADUS Site Plan in Hypack







#### **USBL** Transducer on Diver



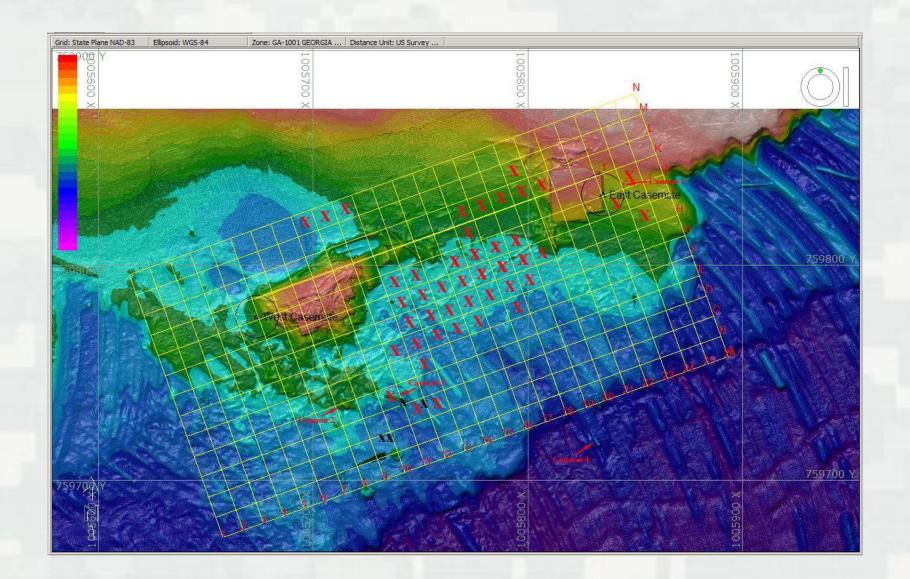
















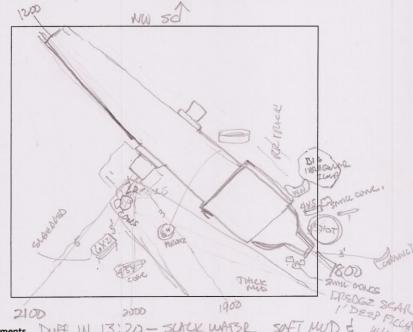
#### **CSS Georgia Data Recovery Project 2015**

**Artifact Recovery Form** 

 Grid Square
 10-0-6
 Date
 25 MAICH 15
 Recorder
 6 LIMITS

 Dive #
 06
 Tide
 1416H/SUKK
 Depth
 50'

Diver DOP Sediment THICK SENIMENT



THILLER MUD 0900 - 1800 QUADRUMT OF SO = 6" PIAN)

PELOVER BASKET (2 13:47 VSEN SLACK TIOS

Assigned Artifact Tags (NANDOM LONGS, 16th SAPONT 307, ROCKS? COMS MOSP)
BESOLH, ROCK C. 1800+5, 10×4" CONZ 1800+1,5, 445" SANGLE BOLF, SWILL
CONE, SHOW GOLF, BRASE WANGAUT?; CHROMIC OF ROCT











#### Coordinating USBL Positioning with MDSU-2 Divers













#### Systematic Mechanized Recovery















### THANK YOU



