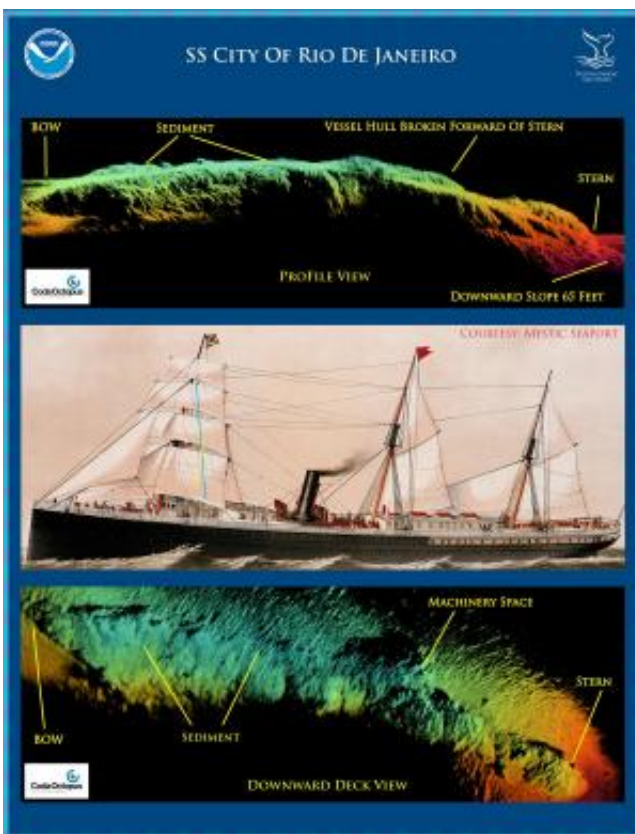


# NOAA, partners reveal first images of historic San Francisco shipwreck, SS City of Rio de Janeiro

December 10 2014

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CodaOctopus 3-D Echoscope sonar profile view of SS City of Rio De Janeiro.  
Credit: Coda Octopus/NOAA Bottom - Painting of SS City of Rio De Janeiro.  
Credit: Mystic Seaport

NOAA and its partners today released three-dimensional sonar maps and

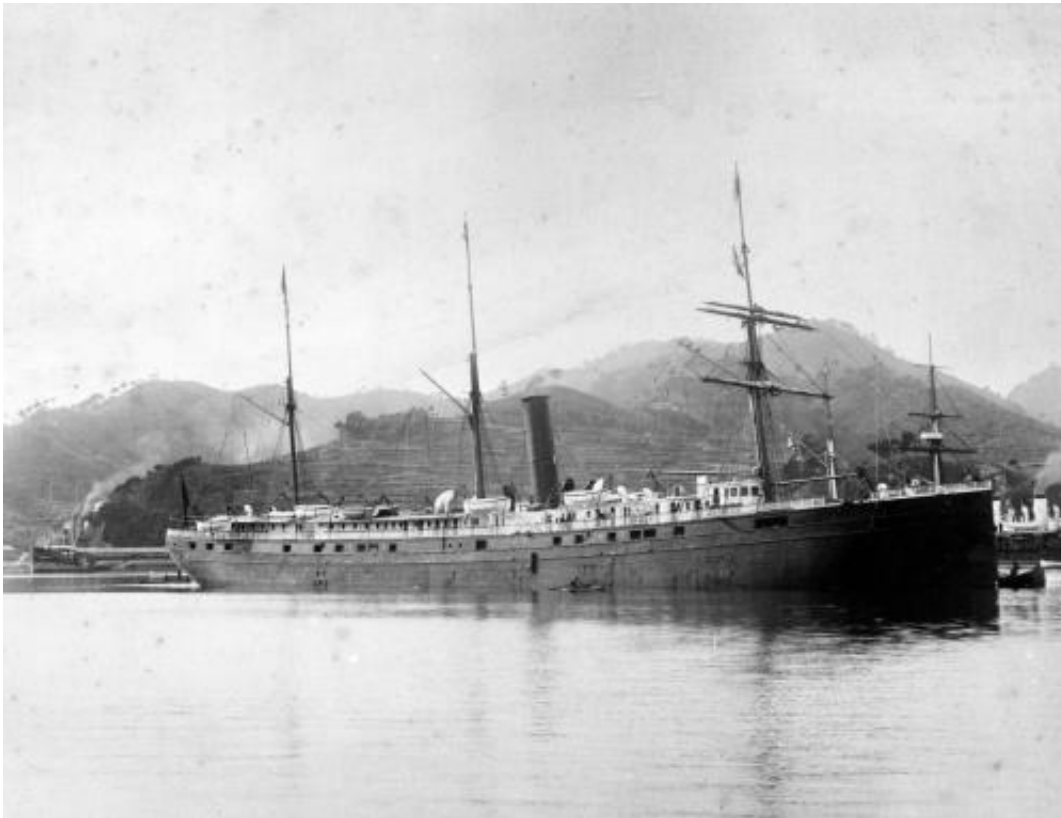
images of an immigrant steamship lost more than 100 years ago in what many consider the worst maritime disaster in San Francisco history.

On Feb. 22, 1901, in a dense morning fog, the SS City of Rio de Janeiro struck jagged rocks near the present site of the Golden Gate Bridge and sank almost immediately, killing 128 of the 210 passengers and crew aboard the ship.

Fishermen in the area, hearing the ship's distress calls, helped rescue 82 survivors, many plucked from makeshift rafts and floating wreckage. The dead included Chinese and Japanese immigrants as well as the U.S. Consul General in Hong Kong, who was returning to the U.S. with his wife and two children. The entire family died in the tragedy.

NOAA's Office of National Marine Sanctuaries Maritime Heritage Program is engaged in a two-year study to discover and document shipwrecks in Gulf of the Farallones National Marine Sanctuary and nearby Golden Gate National Recreation Area. In November, Hibbard Inshore and Bay Marine Services donated a research vessel and crew, along with a high-powered remotely operated vehicle, to help NOAA pinpoint and map the City of Rio de Janeiro wreck site using three-dimensional Echoscope® sonar developed by Coda Octopus.

"This exploration of the San Francisco Bay is about our overall efforts to learn about the area's important marine heritage, as well as to test recent advances in technology that will allow us to better protect and understand the rich stories found beneath the Bay's waters," said James Delgado, director of maritime heritage for NOAA's Office of National Marine Sanctuaries. NOAA has so far plotted nine of nearly 200 ships including four never before found vessels.



The SS City of Rio de Janeiro, built by John Roach & Son in 1878 at Chester, Pennsylvania, regularly transported passengers and cargo between Asia and San Francisco. Photo taken at Nagasaki, Japan, 1894. Credit: San Francisco Maritime National Historical Park

California-based salvagers found the wreck in the 1980s, but its exact location was unknown as the coordinates they provided did not coincide with any wreck charted by NOAA through years of sonar work.

During this expedition, Robert Schwemmer, West Coast regional maritime heritage coordinator for NOAA's Office of National Marine Sanctuaries, worked with Delgado, and multibeam sonar expert Gary Fabian to locate the wreck site again. They located the site in 287 feet of water, positioned inside the main ship channel, and largely buried in mud.

Schwemmer and the Hibbard team captured the first detailed sonar and three-dimensional images of City of Rio resting in the dark, muddy waters outside the bridge.

The team also completed the first detailed map of S.S. City of Chester, which was re-discovered late last year in the vicinity of City of Rio. To see video of City of Rio, photographs and other materials, visit sanctuaries.[noaa.gov/shipwrecks/city-of-rio-de-janeiro/](https://www.noaa.gov/shipwrecks/city-of-rio-de-janeiro/).

"The level of detail and clarity from the sonar survey is amazing," Schwemmer said. "We now have a much better sense of both wrecks, and of how they not only sank, but what has happened to them since their loss."

Blair Cunningham, president of technology, Coda Octopus Products Inc., said "We are extremely pleased the Echoscope® has proven to be an excellent archaeological tool, providing unrivalled imaging. We look forward to working with NOAA National Marine Sanctuaries in the future."

City of Rio de Janeiro, launched in 1878, joined the fleet of the Pacific Mail Steamship Company, carrying passengers and freight to and from San Francisco, Honolulu, Yokohama, and Hong Kong as America expanded into the Far East and Pacific after the Civil War. Most Americans whose ancestors came to the United States from the Far East in the 19th and early 20th centuries to start a new life arrived on ships like City of Rio de Janeiro.

City of Rio de Janeiro was rumored to be full of silver treasure, but Delgado said accounts of a shipment of "Chinese silver" were actually bars of tin. "Today the wreck is broken and filled with mud, and it is a sealed grave in fast, dangerous waters in the main shipping lanes," he said.

Gulf of the Farallones National Marine Sanctuary encompasses nearly 1,300 square miles of ocean and coastal waters beyond California's Golden Gate Bridge. The sanctuary supports an abundance of species including the largest breeding seabird rookery in the contiguous United States, and other species such as whales and white sharks.

Provided by NOAA Headquarters

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