The Final Voyage of H.L. Hunley

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THE FINAL VOYAGE OF H.L. HUNLEY

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Los Angeles Class SSN - Length 360 feet

CSS H.L. Hunley - Length 40 feet

Ben Franklin Class SSBN - Length 425 feet

Relative Scale - The Hunley & Modern Submarines
Singer's Torpedo,
Used for blowing up the Neapolitan.
Submarines built by
James McClintock, Baxter Watson
and Horace Hunley
CONFEDERATE STATES SUBMARINE TORPEDO BOAT H. L. HUNLEY. LONGITUDINAL ELEVATION, PLAN, AND TRANSVERSE SECTIONAL VIEWS.

1. The bow and stern castings; 2, water-ballast tanks; 3, tank bulkheads; 4, compass; 5, sea cocks; 6, pumps; 7, mercury gauge; 8, keel-ballast stuffing boxes; 9, propeller shaft and cranks; 10, stern bearing and gland; 11, shaft braces; 12, propeller; 13, wrought ring around propeller; 14, rudder; 15, steering wheel; 16, steering lever; 17, steering rods; 18, rod braces; 19, air box; 20, hatchways; 21, hatch covers; 22, shaft of side fins; 23, side fins; 24, shaft lever; 25, one of the crew turning propeller shaft; 26, cast-iron keel ballast; 27, bolts; 28, butt end of torpedo boom.
H.L. Hunley Assessment Project, May 1996
NPS Submerged Cultural Resources Unit
South Carolina Institute of Archaeology and Anthropology
U.S. Naval Historical Center

Gamma, Gradient Magnetic Contours

H.L. Hunley

U.S.S. Housatonic

Geometrics G-876 Magnetometer Data
Joseph Ridgaway (1st officer, stern)
DNA
Born in Maryland?
30 years old
5 feet, 10 inches tall
Sea captain’s son
CSS Indian Chief
1st officer, aft ballast tank, flywheel, aft hatch
James Wicks (6th crank position)
Born in North Carolina
45 years old
5 feet, 10 inches
Married, 4 daughters
U.S. Navy until 1862
Confederate Navy 1862
CSS Indian Chief
6th crank position
- Born in Northern Europe
- Early to mid-40s
- 5 feet, 8 inches
- Background is a mystery
- Several broken bones
- 5th crank position
Corporal
J.F. Carlsen
(4th crank position)
- Born in Northern Europe
- 20 to 23 years old
- 5 feet, 9 inches tall
- Crew of privateer Jefferson Davis in 1861
- Wegener’s German Artillery
- “Dead Man’s Seat”
Frank Collins
(3rd crank position)
- Born in Fredericksberg, VA
- 23-26 years old
- More than 6 feet tall
- Probable sailor background
- CSS *Indian Chief*
- 3rd crank position
Lumpkin (2nd crank position)
- Born in Europe
- 37-44 years old
- 5 feet, 10 inches tall
- Broken bones, arthritis
- CSS Indian Chief
- 2nd crank position
Arnold Becker
(1st crank position)
- Born in Europe
- Under 21 years old
- 5 feet, 5 inches tall
- Riverboat crew in New Orleans 1862
- CSS Chicora, CSS Indian Chief, Charleston 1862
- Ballast tank, ventilation, 1st crank position
Lieutenant George E. Dixon (Commander)
- Born in the North
- 24 or 25 years old
- 5 feet, 9 inches tall
- Steamboat engineer 1860
- Mason, Mobile Grays
- 21st AL Infantry 1861
- Wounded at Shiloh 1862
- *Hunley* commander 1863-4
Watch stopped at 8:23
Confederates kept Local Apparent Solar Time
US Navy kept Local Mean Solar Time of D.C.
Difference=26 minutes
COLUMBUS CHEST VALVE

TITANIC “BIG PIECE”