The following pages are reproduced from the *Underwater Archaeology Proceedings from the Society for Historical Archaeology Conference*, Washington, D.C., January 1995.
Introduction—Requiem for a Featherweight

"Under no circumstances...can a steam vessel, built expressly for the transportation of freight or passengers, be made, in any manner, equal in convenience or efficiency to a vessel originally intended for war purposes." Perry was absolutely right in the quote above (Howarth 1991:186), and the quick disposal of USS Hatteras by CSS Alabama on 11 January 1863 off Galveston was a textbook example. For centuries it was common to convert merchantmen for naval service in time of war. However, by the mid-19th century, offensive armaments had developed to the point that a lightly-constructed merchant vessel could no longer be expected to stand up to a purpose-built, heavily constructed, man-of-war (Keegan 1989:97-99). Nevertheless, the Navy acquired many commercial vessels for Union service during the Civil War. The West Gulf Blockading Squadron, of which USS Hatteras was a part, was mostly composed of such ships. This paper reports a program to monitor the Hatteras wreck site and map the remains visible above the bottom (Figure 1). The report also describes the ship, its history, wreck site, site history, and artifacts.

The Ship—Physical Description

Harlan and Hollingsworth of Wilmington, Delaware, built a sidewheel steamer called St. Mary; on 25 September 1861 the Navy acquired the 1,126-ton iron-hulled ship from the builders at a cost of $110,000 (Wilbur 1927:100). Fitted
out at the Philadelphia Navy Yard and named USS *Hatteras*, its measurements were 210 ft. in length, 34 ft. in beam, 18 ft. in draft, and an 8-knot speed. The third-rate warship had a three-masted schooner rig and a condensing, walking-beam engine developing 500 horsepower whose cylinder diameter was 50 in. with a 132-in. stroke (Silverstone 1989:73). The engine had a Sickell’s cutoff. The boiler had the flues mounted below and tubes above (Wilbur 1927:100). *Hatteras* had a complement of 126 officers and men and was armed with four 32-pounders of 27 hundredweight (short 32-pounders) and one 20-pounder rifle (Navy Department 1977:270). The 20-pounder rifle was not part of the original suite of guns but was added 21 November 1861. The warship was commissioned in October 1861 (Silverstone 1989:73).

The Shipwreck Site

The site is located about 32 km (20 mi.) south of Galveston and about 8.7 km (14 mi.) offshore; snagged shrimp nets had pointed to this area, which otherwise could have been missed. A cooperative effort between the Texas Historical Commission (THC) and the Minerals Management Service (MMS), Gulf of Mexico OCS Region, recorded new site coordinates with a Trimble Navigation, Inc. Differential Global Positioning System (DGPS) in 1993. The DGPS system has an accuracy of one m. In 1994, as a test of the DGPS system, the research vessel anchored on the DGPS coordinates from 1993. The divers found and buoyed the site immediately upon descent and several hours were saved in the process. Water depth at the site is 17.6 m (58 ft.), and maximum relief above the bottom is ca. 1.2 m (4 ft.). The shipwreck site’s official number is 41GV68; the Texas Antiquities Committee has designated it a State Archaeological Landmark, and it is also listed on the National Register of Historic Places.

Little of the wreck is exposed above the sand. Paddlewheel hubs on both sides of the ship and some parts of the steam engine rise partially above the sand bottom. The only other remains showing above the bottom in 1992 and 1993 were a very small section of encrusted iron near the bow which was tentatively identified on the assumption that it was located forward of the paddlewheels and on its orientation and distance from other exposed remains. In 1994, the bow wreckage was buried.

Site mapping and monitoring were conducted in 1992, 1993, and 1994 through a joint THC/MMS project under co-directors Barto Arnold and Rick Anuskiewicz (Anuskiewicz and Arnold 1992; Arnold 1993). The 1993 fieldwork included a detailed magnetometer survey to provide a contour plot of the magnetic anomaly and locate any scattered remains (Figures 2 and 3). Remarkably little scatter was detected—only three small, isolated point sources. These anomalies could result from scattering by shrimp trawls, battle damage, or *Hatteras’* portside guns, which had been jettisoned to correct a list as she was sinking. The magnetic signature with multiple highs and lows was typical of a shipwreck.

The Ship’s History

In fall 1862, Union forces captured Galveston. Earlier, the West Gulf Squadron had been running past Confederate forts and temporarily capturing such towns as Corpus Christi and Indianola. Texas was a major cotton producer, and it was important to the Confederacy to get that cotton past the blockade or down to Matamoros, Mexico, by wagon. General Bank’s Union army was to come to Galveston for a thrust into Texas, but on New Year’s Eve General Magruder’s Confederate forces staged a surprise attack and recaptured the town and several hundred troops of the garrison. USS *Harriet Lane* was captured by cottonclads armed only with sharpshooters. USS *Westfield* went aground and was blown up to prevent capture. The premature explosion of *Westfield’s* magazine killed Captain Renfrew, the ship’s as well as the squadron’s commander (Fehrenbach 1968 and Snyder 1938). This disaster set the tone of Union frustration in assaults on Texas for the
rest of the war (Neyland 1993). “There was never to be a Union song called ‘Marching Through Texas’” (Fehrenbach 1968:372).

At the same time, the famous raider CSS Alabama was lurking across the Gulf of Mexico preparing to attempt to catch General Bank’s invasion force and destroy the transports. The loss of Galveston changed Union plans. USS Hatteras joined Farragut and his reinforcements to the remnants of the West Gulf Squadron off Galveston on 6 January, just in time for an encounter with Semmes’ Alabama.

Under her first captain, Commander George F. Emmons, Hatteras began her Civil War career when she joined the South Atlantic Blockading Squadron at Key West, Florida, on 13 November 1861. She served off Apalachicola and Cedar Keys, Florida, before transferring to the Gulf Blockading Squadron. The time in Florida included a highly successful raid on Cedar Keys harbor, when the crew burned seven small blockade runners loaded with turpentine and cotton. The raiders also burned the railroad terminal, several buildings, and flatcars and captured half the small garrison and its commander.

After 26 January 1862 when it arrived at Berwick, Louisiana, Hatteras had a successful cruise and captured a number of blockade runners in less than a year. Most of this action occurred off Vermilion Bay, as the ships ran either toward Havana or Sabine Pass (Navy Department 1977). In November 1862, Commander Homer C. Blake took command as the second captain of Hatteras.

When Alabama sighted Galveston on 11 January 1863, it found not General Bank’s trans-
ports but a fleet of warships anchored offshore. The crew deduced that the Confederates had re-captured the town when they saw the fleet lob a shell that burst over the town. One of the Union ships stood out to investigate the stranger. Semmes lured Hatteras away from the support of her sisterships, and just after dark a sharp but brief battle took place (Semmes 1962). The reports of this action by the two captains, ex-colleagues in the pre-war Navy, appear in Arnold and Hudson (1981).

USS Morning Light's log recorded heavy firing to the southwest during the 6–8 p.m. watch. Morning Light was blockading Sabine Pass on the Texas-Louisiana border about 80 mi. from the scene of the battle (National Archives 1863). The 13-minute battle took place at close range, ending when a shell exploded in Hatteras' engine cylinder and knocked down the walking beam. Whole plates of iron were blown away at the waterline. Captain Blake surrendered with his ship on fire and rapidly sinking and Alabama maneuvering to rake it. Hatteras suffered two dead and five wounded, while Alabama had two injured and very light damage. Alabama launched her boats and helped take off Hatteras' crew, who were later paroled at Port Royal, Jamaica. The morning after the battle, USS Brooklyn found the wreck sitting upright in 9-1/2 fathoms of water with its masts visible above the waves. In relation to potential artifacts at the site, Captain Blake mentioned an extra gun, a 30-pound Parrot rifle. Semmes mentioned yet more guns on Hatteras: a second, similar Parrot, and a 12-pound howitzer.

The Shipwreck Site's History

Historical research so far reveals no salvage contemporary with Hatteras' sinking. Since it went down very quickly, there was likely no time for removing even personal possessions. The site may contain the fully-intact remains of the ship and its equipment. There has been considerable deterioration of the hull and organic objects above the sediment, but the site’s archaeological potential is tremendous. The water is deep enough that scattering of the contents by wave action should not be significant.

Treasure hunters discovered the wreck in the mid-1970s and filed an admiralty suit in 1978 (U.S. District Court nd). The Navy won the lawsuit since naval vessels always remain government property, and they are not available for commercial salvage. As litigation proceeded to the court of appeals and back, the Bureau of Land Management (BLM, from which the MMS later emerged) sponsored two trips to the site which yielded good remote-sensing data (Arnold and Hudson 1981), and its location was firmly fixed with microwave radar positioning. The THC and the Institute for Nautical Archaeology at Texas A & M University participated in the BLM projects. During one of these trips archeological divers attempted to visit the wreck. It was the end of the day, and they could not locate the wreck in the fading light; however, Donald Keith later succeeded.

The MMS’s renewed interest in Hatteras began as a cooperative study effort with the THC in 1992. The MMS was specifically interested in the wreck because of its proximity to existing oil production platforms (less than 1 mi.) and the potential impact of oil and gas development upon it. In 1992 the two agencies initiated a program of site monitoring and mapping that continued in 1993 and 1994. They conducted dives at the site on two days in 1992 and 1993. The first year’s dives were for familiarization and preliminary mapping of surface remains. In 1994, bad weather shortened the trip to one day of diving. The second and third years’ dives included the beginning of measuring for a site plan and placing a sediment meter. From 1992 to 1994 sediment levels remained fairly constant, and there was no apparent disturbance of the site.

Comparing the condition of the site today with slides provided by Donald Keith reveals one noticeable major change. In the 1970s, there were upright engine components described by the treasure hunters as the steam condenser. It may have been the valve assembly, but in any case the structure has now been knocked down, probably by a shrimp trawl.
The Artifacts

The treasure hunters removed artifacts from the wreck and turned them over to the court as part of their salvage claim, including a builders' plate marked "Harlan and Hollingsworth and Co., Iron Ship and Steam Engine Builders, no. 327, Wilmington, Delaware, 1861," two small bronze oil cups with covers, a brass steam valve, two large bronze priming cups (one with attached pipe stem), an oiling pipe stem, and an iron ball with eye weighing ca. 45 pounds. These artifacts have languished with the court records since 1983 when the case was decided in the government's favor. With the help of the Naval Historical Center and the Navy Judge Advocate General's Office, the THC hopes to have the artifacts in a museum soon.

Conclusion

The wreck of USS Hatteras is an integral part of the story of the Civil War on the Texas coast. The remains of an unsalvaged, fully-equipped naval vessel are expected to be found at this site, making it one of the most important underwater archeological sites in the country. The responsible agencies continue to monitor the site's condition on a regular basis. "Historians generally regard the defense of the Texas coast and borders as one of the greatest military feats of the Confederacy" (Fehrenbach 1968).
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U.S. DISTRICT COURT FOR THE SOUTHERN DISTRICT OF TEXAS
GALVESTON DIVISION
nd Hatteras, Inc. Plaintiff v. The USS Hatteras, her engines, armament, apparel, cargo, appurtenances, etc. in rem, and United States of America, in personam Defendants. Civil Action No. G-78-77.

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