

## Ballast Stones <sup>[1]</sup>

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by [William S. Powell](#) <sup>[2]</sup>, 2006



Ballast stone thrown from the vessels of Amadas and Barlowe at Roanoke Island, 1584.

<sup>[3]</sup>Ballast stones, whose weight stabilized empty [ships](#) <sup>[4]</sup>, have been found at various [colonial landing sites](#) <sup>[5]</sup> along the North Carolina coast. Although there are no known records, residents and local historians believe that these stones, found in [coastal counties](#) <sup>[6]</sup> along the shore and under water, were used as ballast in early sailing vessels. In the colonies, the market for manufactured goods from abroad was limited, but local produce such as lumber, [naval stores](#) <sup>[7]</sup>, grain, and [tobacco](#) <sup>[8]</sup> was exported from North Carolina. On the westbound voyage, ships needed weight to lower them in the water to keep them from capsizing; large stones filled the ships' hold, but after they arrived this ballast was thrown overboard to be replaced by products from the colony.

Jettisoned stones began to clog the [harbors](#) <sup>[9]</sup> so badly that in 1769 North Carolina political leader [Richard Caswell](#) <sup>[10]</sup> presented a bill in the colonial Assembly to appoint a ballast master who would regulate this activity in the vicinity of Ocracoke Inlet. The problem persisted, however, and in 1784 the [General Assembly](#) <sup>[11]</sup> passed an act that prohibited ballast stones from being thrown into the channel of the [Cape Fear River](#) <sup>[12]</sup>. Thereafter, before docking, ships were required to dispose of their ballast prior to reaching the low watermark. Stones left in shallower water undoubtedly provided the cobblestones still seen in some of the streets along the river in [Wilmington](#) <sup>[13]</sup>.

#### References:

Walter Clark, ed., *State Records of North Carolina*, vol. 24 (1905).

C. Christopher Crittenden, *The Commerce of North Carolina, 1763-1789* (1936).

#### Additional Resources:

Burdette, Kemp Magnus Wilkes and Smith, Michael S. "The Mineralogy, Petrology, and Provenance of Ballast Stones From The Cape Fear, North Carolina: 1725 - 1825." In review *Journal of Historical Archaeology*.

Burdette, Kemp M. and Smith, Michael S. (2003). "The introduction and use of ballast stones in the Cape Fear Region: An underutilized tool for archaeologist and historians." Honor's thesis, [University of North Carolina at Wilmington](#) <sup>[14]</sup>.

Miller, J. William. "Ballast Stone Studies From North Carolina Shipwreck 003bui, The Queen Anne's Revenge: Mössbauer Spectroscopy" *Southeastern Geology* 40, No. 1. February 2001, p. 59-64 <http://wayback.archive-it.org/org-67/20120515001830/http://www.qaronline.org/rcorner/Millerscreen.pdf> <sup>[15]</sup>

Callahan, John E. "Ballast Stone Studies From North Carolina Shipwreck 0003 Bui, The Queen Anne's Revenge: Hand

Specimen, X-Ray, Petrographic, Chemical, Paramagnetic and  $^{40}\text{K}$  -  $^{40}\text{Ar}$  Age Results." *Southeastern Geology* 40, No. 1, February 2001, p. 49-57. <http://wayback.archive-it.org/org-67/20120515001828/http://www.qaronline.org/rcorner/Callahanscreen.pdf> [16]

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