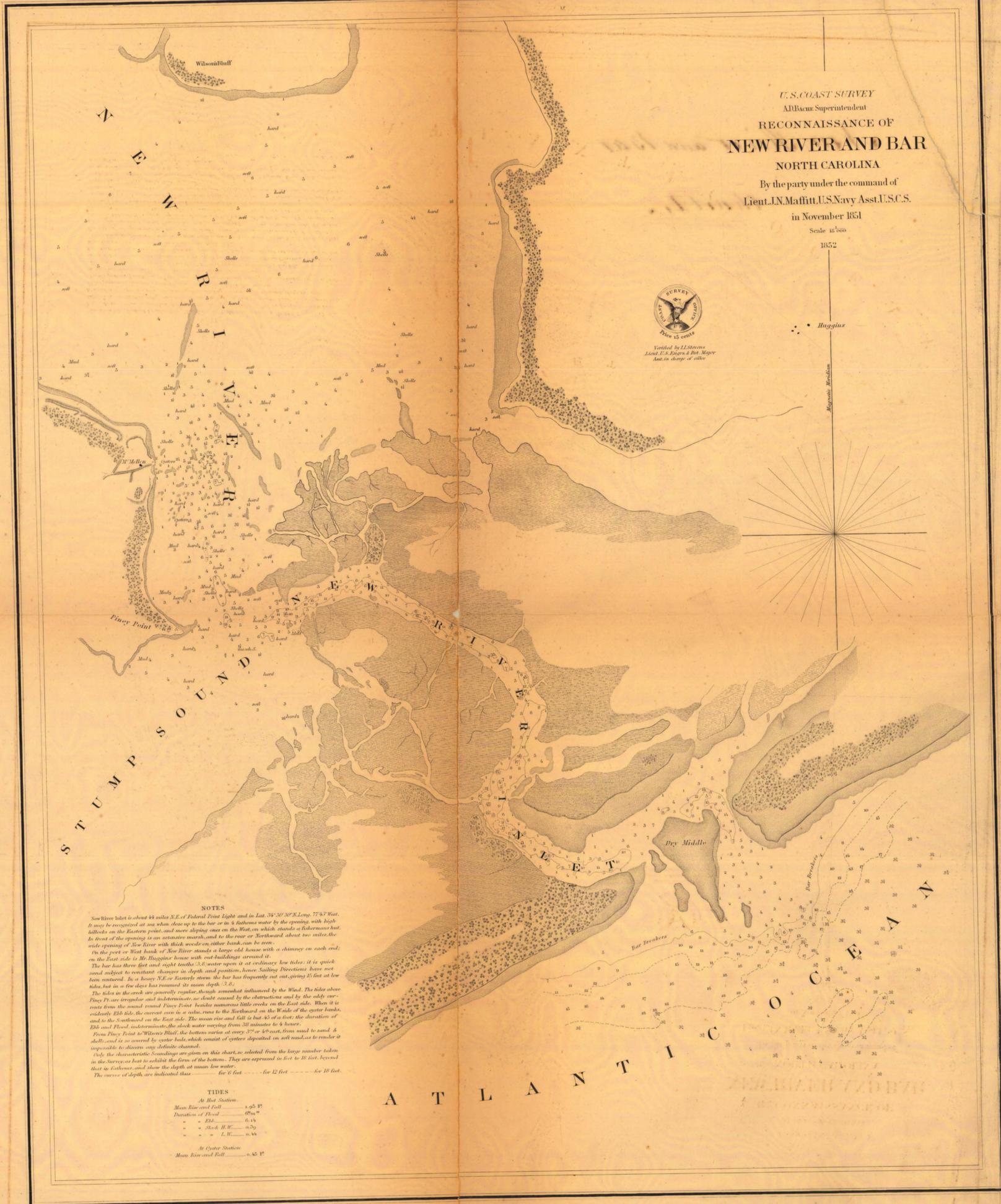


RAREBK
VK
982
.N8
B3
1861
Chart L

Electrotype Copy No. 1 by G. Mathiot U.S.C.S.



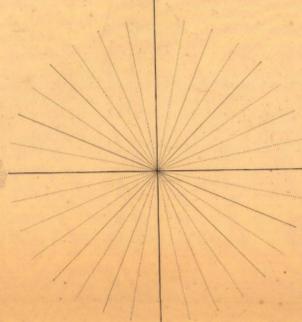
U.S. COAST SURVEY
AD Bacus Superintendent
RECONNAISSANCE OF
NEW RIVER AND BAR
NORTH CAROLINA

By the party under the command of
Lieut. J.N. Maffitt, U.S. Navy Asst. U.S.C.S.
in November 1851

Scale 12/1000
1852



Verified by L.S. Stevens
Lieut. U.S. Eng. & Dir. Major
and in charge of office



NOTES

New River takes its rise about 44 miles N.E. of Federal Point Light and in Lat. 34° 30' 30" N. Long. 77° 47' West. It may be recognized at sea when close up to the bar or in 4 fathoms water by the opening with high banks on the Eastern point and more sloping ones on the West on which stands a fishermen's hut. In front of the opening is an extensive marsh, and to the rear or Northward about two miles, the wide opening of New River with thick woods on either bank can be seen.

On the port or West bank of New River stands a large old house with a chimney on each end, on the East side is Mr. Higgins' house with out-buildings around it. The bar has three feet and eight tenths (3.8) water upon it at ordinary low tides: it is quick sand subject to constant changes in depth and position, hence sailing Directions have not been ventured. In a heavy N.E. or Easterly storm the bar has frequently cut out giving 15 feet at low tides, but in a few days has resumed its mean depth (3.8).

The tides in the creek are generally regular, though somewhat influenced by the Wind. The tides above Pines Pt. are irregular and indeterminate or doubtful caused by the obstructions and by the eddy currents from the sound, round Pines Point besides numerous little creeks on the East side. When it is ebb tide, the current even in a calm runs to the Northward on the West side of the outer banks, and to the Southward on the East side. The mean rise and fall is but 42 of a foot, the duration of Ebb and Flood, indeterminate, the slack water varying from 30 minutes to 4 hours.

From Pines Point to Wilson's Bluff, the bottom varies at every 3rd or 6th east, from mud to sand & shells, and is so covered by oyster beds, which consist of oysters deposited on soft mud, as to render it impossible to discover any definite channel.

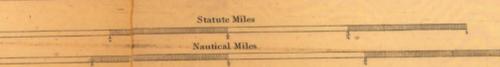
Only the Acoustic Soundingings are given on this chart, as selected from the large number taken in the Survey, as best to exhibit the form of the bottom. They are expressed in feet to 10 feet, beyond that in fathoms, and show the depth of mean low water.

The curves of depth are indicated thus: — for 5 feet — for 12 feet — for 15 feet.

TIDES

At Bar Station
Mean Rise and Fall 1.65 F.
Duration of Flood 07m 20s
" " Ebb 06 15
" " Slack W. 03 30
" " L. W. 06 44

At Outer Station
Mean Rise and Fall 0.45 F.



195
53