RAREBK
VK
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.S6
B3
1861
Chart H

PRELIMINARY CHART OF

PORT ROYAL ENTRANCE

BEAUFORT CHECHESSEE AND COLLETON RIVERS

SOUTH CAROLINA.

From a Trigonometrical Survey

under the direction of A.D.BACHE Superintendent of the

SURVEY OF THE COAST OF THE UNITED STATES.

Triangulation by C.O.BOUTELLE Assist.

Hydrography by the Parties under the command of

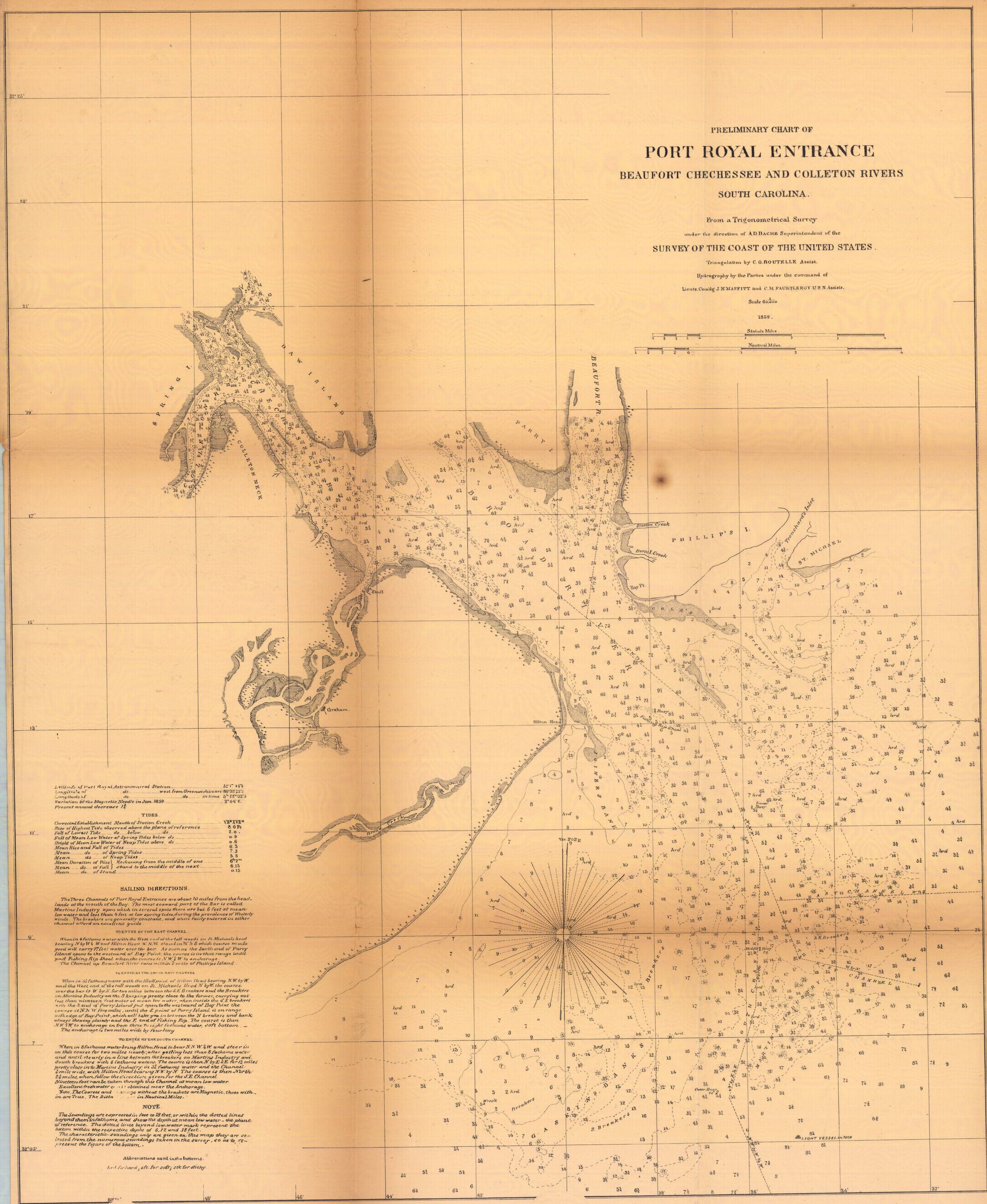
Lieuts.Comdg J.N.MAFFITT and C.M.FAUNTLEROY U.S.N.Assists.

Scale $\frac{1}{60,000}$

1859.

Statute Miles.

Nautical Miles.



Latitude of Port Royal Astronomical Station	32°1' 4"3
Longitude of do west from Greenwich in arc	80°38' 22"3
Longitude of do do in time	5h 22m 32s.5
Variation of the Magnetic Needle in Jan. 1859	3°04' E.
Present annual decrease 1¼	

TIDES.

Corrected Establishment Mouth of Station Creek	VIIh XVIIm
Rise of Highest Tide observed above the plane of reference	8.6 Ft
Fall of Lowest Tide do below do	2.0
Fall of Mean Low Water of Spring Tides below do	0.9
Height of Mean Low Water of Neap Tides above do	0.6
Mean Rise and Fall of Tides	6.5
Mean do of Spring Tides	7.3
Mean do of Neap Tides	5.3
Mean Duration of Rise } Reckoning from the middle of one	6h 2m
Mean do of Fall } stand to the middle of the next	6.15
Mean do of Stand	0.15

SAILING DIRECTIONS.

The Three Channels of Port Royal Entrance are about 10 miles from the headlands at the mouth of the Bay. The most seaward part of the Bar is called Martins Industry upon which in several spots there are but 6 feet at mean low water and less than 4 feet at low spring tides, during the prevalence of Westerly winds. The breakers are generally constant, and when fairly entered in either channel afford an excellent guide.

TO ENTER BY THE EAST CHANNEL.

When in 6 fathoms water with the West end of the tall woods on St Michaels head bearing N by W½ W and Hilton Head N.N.W. stand in W½ S which course made good will carry 17 feet water over the bar. As soon as the South end of Parry Island opens to the westward of Bay Point, the course is in that range until past Fishing Rip Shoal when the course is N.W½ W to anchorage.
The Channel up Beaufort River runs within ¼ mile of Phillips Island.

TO ENTER BY THE SOUTH WESTERN CHANNEL.

When in 5½ fathoms water with the Bluff point of Hilton Head bearing N.W by W. and the West end of the tall woods on St. Michaels Head N by W. the course over the bar is W by N. for two miles between the S.E. Breakers and the Breakers on Martins Industry on the S keeping pretty close to the former, carrying not less than nineteen feet water at mean low water, when inside the S.E. breakers with the S end of Parry Island just open to the westward of Bay Point the course is N.N.W. five miles, until the S. point of Parry Island is on range with edge of Bay Point, which will take you in between the N breakers and bank always showing plainly and the N. end of Fishing Rip. The course is then N.W.½ W to anchorage in from three to eight fathoms water, soft bottom.
The anchorage is two miles wide by four long.

TO ENTER BY THE SOUTH CHANNEL.

When in 8 fathoms water bring Hilton Head to bear N.N.W.½ W. and steer in on this course for two miles nearly; after getting less than 8 fathoms water and until nearly in a line between the breakers on Martins Industry and South breakers with 8 fathoms water. The course is then N by E.½ E. for 1½ miles pretty close to Martins Industry in 3½ fathoms water and the Channel ¾ mile wide, with Hilton Head bearing N.W. by N. The course is then North 2½ miles, when follow the direction given for the S.E. Channel.
Nineteen feet can be taken through this Channel at mean low water.
Excellent fresh water can be obtained near the Anchorage.
Note. The Courses and Bearings without the brackets are Magnetic, those within are True. The Distances are in Nautical Miles.

NOTE.

The Soundings are expressed in feet to 18 feet, or within the dotted lines beyond them in fathoms, and show the depth at mean low water - the plane of reference. The dotted lines beyond low-water mark represent the bottom within the respective depths of 6, 12 and 18 feet.
The characteristic soundings only are given on this map they are selected from the numerous soundings taken in the survey, so as to represent the figure of the bottom.

Abbreviations used in the bottoms.

hrd for hard, sft for soft, stk for sticky.