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2343
1897/98

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Diag. Ch. No. 1247-a

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U. S. COAST AND GEODETIC SURVEY.

Henry S. Pritchett, Superintendent.

State: Ga.

DESCRIPTIVE REPORT,

Hydrographic Sheet No. 2343

LOCALITY:

Brunswick Outer Bar

1897-98

CHIEF OF PARTY:

Henry L. Marindin

2343

Hydro Sheet # 2343

MAY 8 1900. 05457

Descriptive report to accompany Hydrographic Sheet No 2343 –

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Title:

Survey of Brunswick Outer Bar Georgia.

Made by direction of the Hon. Secretary of War under the River and Harbor Act of June 3 1896.
By party of H. L. Marindin Asst. C & G. Survey
November 27 – 1897 to February 14 – 1898
Scale $\frac{1}{1250}$ or 104 feet to 1 inch.

Scale of feet

Scale of metres

NOTE. The soundings are expressed in feet and tenths and show the stage a Mean High Water, the plane of reference.

The 22 foot curve is shown thus (in green ink)
23 " " " " " in red "
24 " " " " " in blue "
25 " " " " " in brown ink

The mean rise and fall of tides on bar 6.56 feet

Bar Bench Mark is a cross cut in the horizontal stringer on the north side of pile structure on which the automatic tide gauge was placed in 1895.
The station is on the bar in about 19 feet of water at high tide.

Mean high water below Bench mark	3.65 feet
" rise and fall of tide	6.56 "
" low water below bench	10.21 "

Position of Observing Stations

Station	Lat	Long	Azim	B. Azim	to Sta
Tide Gauge	31 05 49.38	81 20 18.36	208 38 10.5	128 38 29.9	Outer 1276.48 meters
Outer	31 05 23.50	81 19 40.74			

Members of Party.

Chief of P. Henry L Marindin Assist C & G survey
Observers Fred A Young " " " "
Charles C Yates " " " "
Recorder Hugh C Denson Aid " " "
Leadman. Oscar M Straube " " "
Tide Obs'rs G C. Fahm and John O Daniel
Draughtsman, Ernest H Sommer C & G survey

A report on the results shown by this survey was forwarded to the Hon. Secretary of War in March 1898.

Brunswick Outer bar lies about 4½ miles off shore near the passage between St Simon and Jekyl Island, Ga. All shipping bound for Brunswick Ga. pass over this bar. The improvement of the channels were begun in 1891 by Col C P. Goodyear a lawyer of Brunswick Ga. in 1894 and 1896 bills were passed in Congress giving him the authority to deepen the bar by the explosion of dynamite on the bottom. He was to receive compensation only on certain depths and widths

having been secured.

The results shown on this survey were as follows:

There is a practical channel 23 feet deep at Mean High Water with a minimum width of 250 feet, this minimum width being found South of buoy 204.

There is a practical channel 24 feet deep at Mean High Tide with a minimum width of 108 feet. This width is limited to 108 feet by the existence of four isolated lumps with 23.8 feet of water over them, and situated near the edge of the channel.

The removal of these lumps would increase the width of channel to 130 feet.

The mean depth of channel 108 feet wide is 24.7 feet.

There is no continuous channel 25 feet deep of any width, the distance between the 25 foot contour inside the bar and the same depth outside is 4860 feet, but within this distance there are five holes with depth exceeding 25 feet aggregating 1740 feet in length which if deducted from the total distance leaves a length of 3120 feet with depths between 24 and 25 feet.

Respectfully submitted
Henry L. Marindin
Asst. C. & G. Survey