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Diag. Cht. No. 1232-1

G. SURVEY
AND ARCHIVE
1908

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

H. Littmann
Superintendent.

State: *N.C.*

DESCRIPTIVE REPORT

Sheet No. *3000*

LOCALITY:

*Rosaoke Marshes,
Oregon Inlet, New
Inlet and Hatteras
Inlet*

1909

CHIEF OF PARTY:

J. B. Boutelle

T I T L E.
XXXXXXXXXXXX

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DEPARTMENT OF COMMERCE AND LABOR
COAST AND GEODETIC SURVEY
O. H. TITTMANN, SUPERINTENDENT

30000

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PAMLICO AND CROATAN SOUNDS
NORTH CAROLINA

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Hydrography at

ROANOKE MARSHES, OREGON INLET
NEW INLET AND HATTERAS INLET

June 16 to June 30
1909

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Sounding boat in charge of F. G. Engle, Assistant, C. & G. Survey.
Soundings plotted in feet by F.G. Engle, " C. & G. Survey.

" *verified & ranked by H. L. Simon*

CHIEF OF PARTY

J. B. BOUTELLE, ASSISTANT, C. & G. SURVEY.

COMD'G. STR. ENDEAVOR.

SCALE: 1--20,000

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DESCRIPTIVE REPORT.

To accompany hydrographic sheet No.....

Pamlico and Croatan Sounds.

N. C.

Roanoke Marshes, Oregon Inlet, New Inlet and Hatteras Inlet.

1909.

Projection and shore line, were transferred from topographic sheet. For Roanoke Marshes, Oregon and New Inlets, the triangulation points were plotted from the triangle side field computation by Assistant John W. Maupin, using the geographic positions of Bodie Id. Lt. Ho., and Pea Island, 1874--1903 as a base. At Hatteras Inlet the points were plotted using the triangle sides, Hatteras Inlet L. H., West Inlet, Egg Shoal. Positions of these points were afterwards furnished from the Office, and a projection constructed from them.

Roanoke Marshes.

A few lines of soundings were run to fill in the area where the land has been washed away since previous survey.

Oregon Inlet.

The soundings were made from a gasoline launch drawing

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2 feet of water, and lines run over the bar and in the small channels leading to the sound. These latter are all closed up on the western side, and there is no channel for boats drawing over 2 feet of water. The line of breakers and of the shoal water (2 feet or less) inside the inlet are indicated on the sheet by a pencil line.

The current on ebb tide runs out of the inlet at a rate of 5 to 6 knots per hour, and this is increased to about 7 knots by strong westerly winds. The flood current is not so strong. The sea breaks entirely across the inlet except in very calm weather.

New Inlet.

This inlet is small and according to local information is rapidly filling up. A few lines were run in the narrow channels leading to the sound, and on the sheet the limits of the shoals (2 ft. or less) are indicated by a pencil line. Considerable difficulty was experienced in getting to the inlet from the sound with the launch drawing 2 ft. of water. The current in this inlet is not very strong, and the sea breaks all across the mouth in all but very calm weather.

Hatteras Inlet.

The survey was made with a view of developing the channels from the inlet to the navigable waters of the sound.

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There is but one channel carrying over 2 feet of water and this has a depth of 5 feet at low water. Soundings were carried over the bar outside. The limits of the shoals (2 ft. or less) inside the inlet are indicated on the sheet by a pencil line. The shoals near the entrance breaks up the ocean swell coming over the bar, but a moderately strong breeze causes a break all over the inner shoals. A sunken wreck was found just inside the bar at position 22 "b" day. The ordinary ebb current has a speed of about 3 knots. The sea breaks all across the inlet in a strong breeze.

Respectfully submitted,



Assistant, Coast and Geodetic Survey,
Commanding U. S. S. ENDEAVOR.

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Hyd Sheet No 3000

Sept 20 1909

The sounding records were kept in a satisfactory manner.

In Hatteras Inlet and Oregon Inlet the channels are fairly well developed and the crossings are good.

At Roanoke Marshes the work is incomplete

H. L. Simons