Diag. Cht. No. 1232-1 Department of Commerce and Labor COAST AND GEODETIC SURVEY MIttmann Superintendent. State: 26. DESCRIPTIVE REPORT Sheet No. 3000 Rosnoke Marsher. Oregon Inlet, New Julet and Hatteras Freet 1900

# TITLE.

C. & G. SUBVEY.

AUG AND ARCHIVES &

AUG AUG 1909

DEPARTMENT OF COMMERCE AND LABOR
COAST AND GEODETIC SURVEY

O. H. TITTMANN, SUPERINTENDENT

PAMLICO AND CROATAN SOUNDS

NORTH CAROLINA

Hydrography at

ROANOKE MARSHES, OREGON INLET

NEW INLET AND HATTERAS INLET

June 16 to June 30

1909

300

Sounding boat in charge of F. G. Engle, Assistant, C. & G. Survey.

Soundings plotted in feet by F.G. Engle,

C. & G. Survey.

CHIEF OF PARTY

J. B. BOUTELLE, ASSISTANT, C. & G. SURVEY.
COMD'G.STR. ENDEAVOR.

SCALE: 1--20,000

# 3000

C. & G. SURVEY, LIBRARY AND ARCHIVES AUG 30 1909 Aco No.

DESCRIPTIVE REPORT.

To accompany hydrographic sheet No......

#### Pamlico and Croatan Sounds.

N. C.

Roanoke Marshes, Oregon Inlet, New Inlet and Hatteras Inlet.
1 9 0 9.

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 Bodies Ild. 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

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 accross 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.

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 brezze causes a break all over the inner shoals. A sunken wreck was found just inside the bar at position 22 "b" day. The ordinary efficient 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,

& Boutiele

commanding U. S. S. ENDEAVOR.

4-3000

STATISTICS: HYDROGRAPHIC SHEET NO.....

### PAMLICO AND CROATAN SOUNDS, N. C.

## 9494949494949

Da	te 	: : Letter :	: Vol	Pos	: Sdgs		
June	24	a	: 1	96	780	: 14.0	: :Launch.
11	25	ъ	12	172	:1379	26.5	* "
. "	26	c	2	206	1705	35.0	n
. "	28	d	23	159	:1277	2 \$7.5	n
June	16	a	1	12	85	1.5	17
, n	18	ъ	1	68	537	9.0	Ħ
"	19	c	1	93	933	12.2	11
: "	30	<u>a</u>	: :12	66	358	15.5	: "
		Totals:-		: : 872	: :7054	: 141.2	•
	June	" 26 " 28 June 16 " " 18	June 24 a  " 25 b  " 26 c  " 28 d  June 16 a  " " 18 b  " 19 c  " 30 d	June 24 a 1  " 25 b 12  " 26 c 2  " 28 d 23  June 16 a 1  " " 18 b 1  " 19 c 1  " 30 d 12	June 24 a 1 96  " 25 b 12 172  " 26 c 2 206  " 28 d 23 159  June 16 a 1 12  " 18 b 1 68  " 19 c 1 93  " 30 d 12 66	June 24 a 1 96 780  " 25 b 12 172 1379  " 26 c 2 206 1705  " 28 d 23 159 1277  June 16 a 1 12 85  " 18 b 1 68 537  " 19 c 1 93 933  " 30 d 12 66 358	June 24 a 1 96 780 14.0  " 25 b 12 172 1379 26.5  " 26 c 2 206 1705 35.0  " 28 d 23 159 1277 77.5  June 16 a 1 12 85 1.5  " " 18 b 1 68 537 9.0  " 19 c 1 93 933 12.2  " 30 d 12 66 358 15.5

# TIDAL NO BE OOO

ROANOKE MARSHES:

soundings reduced to mean low water on tide gauge at Wanchese Wharf.

OREGON INLET AND NEW INLET:

Soundings reduced to mean low water on tide gauge at Davis Fish House.

HATTERAS INLET:

soundings reduced to mean low water on tide gauge at Hatteras Village.

	Wanchese Wharf	:Davis Fish Ho	: Hatteras	
Plane of reference	2.7	: 2.1	: 1.52	
Lowest tide observed	2.1	1.35	1.3	
Highest tide observe	ed 3.9	3.10	2.15	

### Approximate geographical position of

·	Latitude.			:	Lor	de.	
Wanchese wharf T. G.	35 0	<b>5</b> 5 <b>'</b>	N.	:	75 0	40'	W.
Davis Fish Ho. T.G.	35 0	44 '	N.	:	75 0	34 ¹	₩•
Hatteras T. G.	<b>3</b> 5	131	N.	:	75	421	W.

Sept 20 1909 Hyd Sheet De 3000 satisfactory mon In Hatteras Pulet and Cregon Pulet the channels are fairly well developed and the owner, At Roanske Marshes the work is incomplete Al Simons