

4249 and Add'l. Work

4249 and Add'l. Work

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
State: North Carolina.
11-5013
DESCRIPTIVE REPORT.
4249
Topographic Sheet No. "B"
LOCALITY:
Wilmington
<del>Masonboro Inlet to New Topsail Inlet.</del>
New Topsail Inlet to Masonboro Inlet
19127.
CHIEF OF PARTY:
K. T. Adams,

C. & G. SURVEY  
L & A  
5  
Acc. No. 1927

DESCRIPTIVE REPORT  
TO ACCOMPANY TOPOGRAPHIC SHEET

No. B

SCALE - - - - - 1:20,000

COAST OF NORTH CAROLINA.

MASONBORO INLET to NEW TOPSAIL INLET

SURVEYED to FEBRUARY 4, 1927.

K. T. Adams, H. & G. Engineer, Chief of Party.  
H. K. Hilton, Aid, Topographer.

Limits:

The work on this sheet covers the ocean beach and inlets from  
Masonboro Inlet to 1/2 mile north of New Topsail Inlet.

Control:



The control consisted of various triangulation station along the  
beach established by C.L. Garner in 1914 - 1918 and R.P. Strough in 1914.

The traverse system of survey was used throughout. As the control  
points are rather close together, usually from a mile to a mile and a half  
apart, this only necessitated short traverses. All recoverable stations were  
tied in. High water lines were rodded in; low water and marsh lines were sketched.

Several stations were not recovered (see recovery notes). Some of  
these, as can be seen on the sheet, are now under water and the rest have been ob-  
literated by the shifting sands.

The closures were all within the allowable error, as follows:

From:		To :	Closure:
Beach		Wright	8 meters
Shy	(not recovered)		
Willet	" "		
Wright		Fly	10 "
Cactus	" "		
Foey	" "		
Rich	" "		

From: 	To: 	Closure:
Sid (washed out)		
Fly	Wow	16 meters
Old (not recovered)		
Top " "		
Wow	Porpoise,	7 "

#### Signals:

The small signals for launch hydrography were built by the party during the progress of the work. These consisted of a five foot cross banner on a 2" x 2" center pole securely guyed.

#### Changes in Shore Line:

There have been numerous changes in the shore line, especially around the inlets, due to storms and wind action.

The soil is loose sand and very easily eroded.

At the north end of Wrightsville Beach considerable development is taking place. A concrete bulkhead has been built around the inshore end of the island and is being filled by means of dredges working in the sound.

#### Description of Locality:

The general description of this locality is typical of this part of the coast; a wide, flat sand beach from low water to high water, at high water low sand dunes rise sharply and behind the dunes extending for about a mile to the mainland, low, marshy land cut up with sloughs and creeks of varying depth.

Wrightsville Beach is a summer resort of considerable size. Numerous small breakwaters extend from high water out to low water along the beach at this point. A trolley line and paved highway extend across the sound as shown.

There are a few houses directly across ~~Wrightsville Inlet~~ <sup>Moore, DGN. Nov 26, 1935</sup> from Wrightsville Beach but otherwise there are no houses along the shore.


Corrections on Triangulation Stations:---

The Triangulation station, Wrightsville Water-tank, has been rebuilt and is now located as shown by topographic signal "Tank".

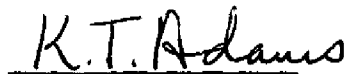
The Seashore Hotel at Wrightsville Beach, also a Triangulation station, has been remodeled and the ~~center~~ cupola is now located as shown by Topographic signal "Sea".

Both of these signals were located by plane table cuts.

Respectfully submitted,

  
H. K. Hilton, Aid,  
U.S.C. & G. Survey.

Approved:

  
K. T. Adams,  
H. & G. Engineer,  
U.S.C. & G. Survey,  
Chief of Party.

C. & G. SURVEY  
L. & A.  
OCT 15 1927  
Acc. No.

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
State: <u>NORTH CAROLINA</u>
11-5613
SUPPLEMENTAL DESCRIPTIVE REPORT.
Topographic Sheet No. <u>4249 Add'l Wk</u> (on orig sheet)
LOCALITY:
<u>PASOEBORO INLET to W. TOPSAIL INLET</u> <u>Transpass</u>
1917
CHIEF OF PARTY:
<u>K. T. ADAMS.</u>

# SUPPLEMENTAL DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET NO. 4242, Add'l. Work (*on orig. Sheet*)

## OBJECT:

The shoreline along the outside beach was completed and the sheet inked and sent to the office. Later the sheet was returned to the field party with supplemental instructions to run the shoreline in each inlet back to a junction with the previous surveys. This report will cover the work inside the inlets after the sheet was returned from the office.

## CONTROL:

The control for the survey of the inlets was signals established and located by the hydrographic and topographic parties working in the vicinity previous to this survey. The tall signals and 20 ft. signals were still standing and could be seen from each location of the planetable. Signals White and Brick, houses on the mainland, which were located by the original topographic party were also used. The shoreline details were rodded in from independent three-point fixes on the above named signals. Each three-point fix was checked by additional pointings on other signals.

## GENERAL DESCRIPTION:

Each inlet has the same general characteristics. The outside strip of land separating the sea from the sound is shifting sand dunes; some bare, some covered with grass and others covered with shrubbery on the inshore side. The sand is bare and is just above high water for a distance on the sides of each inlet. There are many sandbars bare at low water just inside of each inlet. These bars were rodded in when the stage of tide permitted. Inside the



inlets the area is salt marsh with many small channels leading through the grass. Only the largest of these lead to the mainland. Most of them are small, they disappear in the marsh and are bare at low tide. The most important channels are indicated on the sheet by the dash line.

#### CHANNELS:

The approximate location of the most important channels are shown on the sheet by a dash line. No hydrographic survey was made of the inlets. This information was observed by the topographer and is approximate only. The channels indicated by the dash line on the sheet will carry about 1 1/2 to 2 feet as a minimum depth at low tide. Small boats with outboard motors were seen navigating the channels at low tide. Launches drawing 3 feet of water can enter New Topsail, Elmore's, Rich and ~~Mason~~ Inlets at low tide and can go to the mainland from each inlet at high tide. *D.G.N. Nov 26, 1935* The small inlet north east of Elmore's Inlet has a small channel of about 1 foot at low tide leading in a northeasterly direction. This inlet bares nearly all the way across at 3/4 tide.

Wrightsville (~~Moore~~<sup>feet</sup>) Inlet has at least three of water at low tide and this depth can be carried inside the Sound as far as the trestle in a S E'ly direction. The channel between ~~Wrightsville~~ and ~~Queens~~ Inlet as shown on the previous surveys is nearly closed. The small channel now indicated is bare at low tide. *D.G.N. Nov. 26, 1935*

*Mason D.G.N. Nov 26, 1935* Masonboro Inlet can be entered at low tide with a boat drawing about 2 feet of water. This depth can be carried through the sound to the trestle in a N E'ly direction. There are many small docks, which were rodded in, on the sound in back of Wrightsville beach.

Only small boats use the sound S. W. of the trestle. The larger boats come in ~~Wrightsville~~ <sup>Moore</sup> Inlet and use the sound N. E. of the trestle.

A developement known as "Shore Acres" has started on filled ground near the car line just across the trestle from Wrightsville beach.

#### CHANGES:

The most noticable changes in shoreline since the last survey were in the vicinity of each inlet. Some of the inlets have moved along the shoreline gradually and some have closed up and new inlets broken through in the vicinity. The new inlets which broke through have been given new names. Elmore's Inlet is in the vicinity of where Old Topsail Inlet was. Mason's Inlet is in the vicinity of where Queen's Inlet was.

The limits of the marsh inside the inlets which were exposed to wave action in the inlets were found to have changed.

#### GEOGRAPHIC NAMES:

The following names of inlets differ from those which appear on previous charts: Elmore's Inlet, Mason's Inlet and Moore's Inlet. These are well established and local names. Fisherman and other local men who use these waters know these inlets only by the above mentioned names.

Old Topsail Inlet filled up and a new inlet broke through in the vicinity which is called Elmore's Inlet.

The small new inlet between New Topsail Inlet and Elmore's Inlet has no local name.

Mason's Inlet is the established local name for <sup>the</sup> inlet near where Queen's Inlet appears on the chart.  
DGN. Nov 24, 35



Locres Inlet is the established local name for the  
*DGN. Nov. 26, 1935*  
 inlet where Brightsville Inlet appears on the chart.

The names of New Topsail, Rich and Masonboro Inlets  
 were verified as well established names.

Respectfully submitted,

*George L. Anderson*  
 George L. Anderson,  
 Jr. H.&G. Engr.  
 U.S.C. & G. Survey.

Approved:

*K. T. Adams*

K. T. Adams,  
 H. & G. Engr.  
 Chief of Party,  
 U.S.C. & G. Survey.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. <sup>B</sup>4249

State . . . . . NORTH CAROLINA.

General locality . . . ~~COAST of NORTH CAROLINA.~~ Wilmington.

Locality . . . . . ~~MASONBORO INLET~~ to ~~NEW TOPSAIL INLET.~~ <sup>Transpose</sup>

Chief of party . . . K. T. ADAMS.

Surveyed by . . . H. K. HILTON.

Date of survey . . . . . to FEBRUARY 4, 1927.

Scale . . . . . 1:20,000.

Heights in feet above . . . . .

Contour interval . . . . . feet.

Inked by H. K. HILTON. . . Lettered by H. K. HILTON.

Records accompanying sheet (check those forwarded): Photographs,

✓ Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet . . . . .

Remarks:

4249

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

SUPPLEMENTAL  
TOPOGRAPHIC TITLE SHEET

4249 Add'l. Work

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4249 Add'l. Wk. (on orig. Sheet)

State . . . . . NORTH CAROLINA. . . . .

General locality . . COAST of NORTH CAROLINA, . . . . .

Locality . . . . . ~~MASONBORO INLET to NEW TOPSAIL INLET~~  
New Topsail Inlet to Masonboro Inlet

Chief of party . . . K. T. ADAMS, *Transpose* . . . . .

Surveyed by . . . . GEORGE L. ANDERSON. . . . .

Date of survey . . . SEPTEMBER, 1927, . . . . .

Scale . . . . . 1:20,000. . . . .

Heights in feet above . . . . .

Contour interval . . . . feet.

Inked by G. L. ANDERSON. Lettered by G. L. ANDERSON. . . . .

Records accompanying sheet (check those forwarded): Photographs,

Supplemental  
Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet . . . . .

Remarks: