

4760

U. S. COAST & GEODETIC SURVEY  
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, *Director*

State: North Carolina

DESCRIPTIVE REPORT

*Topographic*  
~~*Hydrographic*~~

Sheet No. A

4760

LOCALITY

Intracoastal Waterway

Alligator Bay to Virginia Creek

Project HT-128

1933

CHIEF OF PARTY

John A. Bond

H. & G. Engineer

## DESCRIPTIVE REPORT

(To Accompany Topographic Sheet A

Intracostal Waterway, N. C.

Instructions dated December 29, 1932

### GENERAL DESCRIPTIONS

Sheet A was surveyed on a scale of 1:20000 and covers the Intracostal Waterway from Alligator Bay to Virginia Creek. The purpose of this sheet was to supplement the triangulation in the location of navigational aids and U.S.E. base line marks and to secure adequate information for the compilation of the air photos taken of the section.

The Intracostal Waterway within the limits of this sheet consists of a 12 ft. project, the execution of which was accomplished partly by cutting through marshland, and partly by deepening existing waterways. The whole of the route lies in the area between the sand dunes bordering the coast to the southeast and the fast land to the northwest. The average distance between the sand dunes and the fast land is about a mile.

In the work on the sheet no attempt was made to rod in topographic features in detail. The high water line adjacent to the dredged cut was run in to the point where it curved back from the cut. The smaller streams and sloughs making off from the edge of the cut were omitted, but the larger ones are shown. In general, breaks in the high water line of less than, approximately 50 meters, were omitted, while those greater than 50 meters were indicated.

At places where the cut was through open water the high water line along the fast land northwest of the cut was rodged in to assist in the compiling of the photos. Features, such as wharves and isolated houses, were also rodged in for this purpose. Some islands, bays, and the mouths of the larger creeks were rodged in when it was thought that so doing would facilitate the compilation of the air photos.

### CONTROL

Control was plentiful. Instructions called for the location of all lighted beacons and U.S.E. monuments by triangulation. This required frequent triangulation stations and the positions of these were available in advance of the topography.

### SURVEYING METHODS

Standard Coast Survey Methods were used throughout.

LOCATION OF BEACONS AND U.S.E. MARKS

The lighted beacons, the concrete U.S.E. monuments, and the U.S.E. marks, marking intersection of tangents were located by triangulation and are denoted on the sheet by the customary symbol. The single pile unlighted beacons and the intermediate U.S.E. marks along the tangent, consisting of iron pipes, were located by topography and are denoted by a red circle.

LAND MARKS

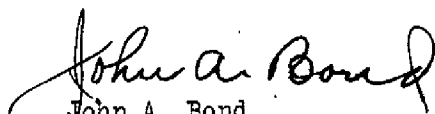
No land marks of value for charting fall within the limits of this sheet.

Respectfully submitted,



C. F. Chenworth  
Aid, U.S.C. & G.S.

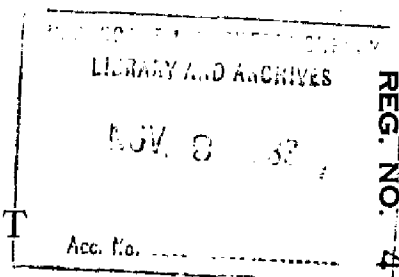
Approved.



John A. Bond  
Lieut. U.S.C. & G.S.  
Chief of Party

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET



The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. "A" \_\_\_\_\_

REGISTER NO. 4760

State North Carolina

General locality Stump Sound (Intracoastal Waterway)

Locality Alligator Bay to Sloop Pt.

Scale 1:20000 Date of survey Jan. Feb. Mar., 1933

Vessel MIKAWA

Chief of Party John A. Bond, H. & G. Engr.

Surveyed by C. F. Chenworth, Aid.

Inked by C. F. Chenworth, Aid.

Heights in feet above \_\_\_\_\_ to ground to tops of trees

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated \_\_\_\_\_ December 29; \_\_\_\_\_, 1932

Remarks: \_\_\_\_\_