

# 5043

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

Air  
Photo.

Topographic  
Hydrographic

Sheet No. 5043.

### LOCALITY

Atlantic Coast

Virginia Creek to Queen Inlet.

1934

### CHIEF OF PARTY

O. S. Reading.

U. S. GOVERNMENT PRINTING OFFICE: 1921

Mason

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# 5043

## DESCRIPTIVE REPORT

to accompany

Air Photo Topographic Sheet No. 5043.

### General Information.

(a) This sheet is a compilation of Army Air Corps five lens photographs taken with a type T-3A camera from an altitude of about 10,000 feet. A Fairchild plane was used piloted by Lieutenant Goodrich with Sergeant Matos as photographer.

The photographs which embrace this sheet consist of a single strip, numbers 323 to 342 inclusive. This sheet was compiled without using the "C" wing print which is missing. Photographs were taken approximately at 11:00 AM on January 29, 1933, and at this time the stage of tide was 1.2 feet above mean low water.

(b) Statistics are as follows:

34.2 square statute miles of area,  
14.2 miles of coastline,  
35.5 miles of inside shoreline,  
14.2 miles of intracoastal waterway, and  
8.7 miles of sloughs less than 200 meters wide.

(c) The description of this area as noted from topographic sheet No. 4279, follows:

"The general description of this locality follows that of all this coast, a wide, flat, straight beach, with low sand dunes rising abruptly at high water line, and behind these dunes, about a mile of low marshy land, cut up with sloughs and creeks, extends back to mainland."

### Control

The control consists of second order triangulation by R. P. Strough in 1914; third order triangulation, by J. A. Bond, in 1933. All control is adjusted to the N.A. 1927 Datum.

### Compilation

(a) and (b) Only the radial line method of compilation was used. Field topographic sheet No. 4761 was used in controlling the plot and all detail shown thereon was transferred to this sheet before making the radial plot.

(c) The field inspection notes were complete for the limited area they covered, the "B" print only. Inspection was lacking in areas along the coastline. However, not much difficulty was experienced in delineating the coastline except at the inlets.

The "C" wing print was missing in all photographs and for this reason, few intersection points could be found in the area covered by this print. For the same reason the location of the railroad and highway shown farthest from and parallel to the coast may be weak and uncertain. If it were not for the "crabbing" present in the photographs, no detail beyond the "B" adjoining the "C" print could have been shown.

All roads in the area with the exception of U. S. No. 17 are unimproved and for the sake of clarity, are shown with full lines. Unless otherwise noted, all blank areas are fields or cultivated areas. The hatchures along the canal denote spoil banks.

#### Comparison with other Surveys

The junction with sheet No. 5044 (aerial) on the North is satisfactory. Sheet No. 5042 will adjoin on the South.

There is attached herewith a list of recoverable topographic stations.

#### Recommendations for further Surveys

The compilation is believed to have a probable maximum error of five meters in position of well defined detail of importance for charting and of ten meters for other detail.

Respectfully submitted

(Sgd.) Leonard A. McGann.

*Leonard A. McGann*

Approved:-

*O J Reading*

# RECOVERABLE TOPOGRAPHIC STATIONS \*

Description	Position				Remarks
	Lat.	D.M.	Long.	D.P.	
Bn. No. 28	34° 21'	990 (859)	77° 40'	793 (740)	
Bn. No. 32	34° 20'	208 (1641)	77° 42'	473 (1061)	
Bn. No. 35	34° 19'	736 (1113)	77° 42'	1513 (21)	
Bn. No. 34	34° 18'	996 (853)	77° 43'	1459 (75)	
Bn. No. 36	34° 17'	1807 (42)	77° 44'	626 (908)	
Bn. No. 40	34° 16'	1713 (136)	77° 45'	406 (1129)	
<p>* These stations were transferred from T-4761 to T-5043</p>					

Revision:

A revision of the coastline and shallow areas at Old Topsail Inlet was made January 30, 1934.

Photograph No. (M53-844G-8) taken at 12:50 P. M. January 14, 1934, covers this area. At this time the height of tide was approximately one foot below mean low water.

*Leonard A. McIsaac*

## GEOGRAPHIC NAMES

Survey No. T5043

Name on Survey	A. On Chart No.	B. On previous survey No.	C. On U. S. quadrangle Maps	D. From local information	E. On local Maps	F. P. O. Guide or Map	G. Rand McNally Atlas	H. U. S. Light List	K.
Queen Inlet.		Alaskan Inlet		(v.s. G.D.)					1
Page Creek									2
Rich Inlet									3
Futch Creek									4
Green channel									5
Bald eagle Pt.									6
Long Pt.									7
Old Topsail Inlet		Pending with U.S.G.N.							8
Howard channel									9
New Topsail Inlet									10
Banks channel		Deleted from charts							11
Old Topsail cr.									12
Old Pt.									13
Virginia Cr.		(not on this sheet but used in title)							14
									15
									16
									17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5043

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. ....

REGISTER NO. 5043

State North Carolina

General locality Atlantic Coast

Locality Virginia Creek to Queen Inlet

Scale 1/20,000 Date of survey Photographs: January 29, 1933  
Compilation: Oct. - Nov., 1933.

Vessel FAIRCHILD F-1A aeroplane Lieutenant Goodrich, Pilot.  
Sgt. Mates, Photographer.

Chief of party Compilation  
O. S. Reading

Photos plotted by L. A. McGann  
Surveyed by L. A. McGann November, 1933.

Inked by L. A. McGann November, 1933

Heights in feet above ..... to ground to tops of trees

Contour, Approximate contour, Form line interval ..... feet

Instructions dated ....., 19 .....

Remarks: Compilation of 5-lens aerial photographs printed  
by photo-lithographic process.

Polyconic projection by J. H. Wulbern, September, 1933.

Projection verified by F. G. Erskine  
F. G. Erskine, September, 1933.

Control plotted by J. H. Wulbern, September, 1933.

Control verified by L. A. McGann  
L. A. McGann, September, 1933.

## REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. 5043

Title (Par. 56) *Virginia Creek to Queen Inlet, Atlantic Coast, North Carolina*  
 Chief of Party *O. S. Redding* Compiled by *L. A. McGinnis*  
 Project *North Carolina* Instructions dated —

1. ✓ The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 8; and 16, a, b, c, d, e, g and i.)
2. ✓ The character and scope of the compilation satisfy the instructions and the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
3. ✓ The control and adjustment of the radial plot were adequate. (Par. 12, 29.)
4. ~~There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.)~~
5. ✓ High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
6. ✓ ~~The representation of low water lines, reefs, coral reefs and reefs, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.)~~
7. ✓ Important details shown on previous surveys and on the chart have been compared with this sheet and a statement has been entered in the report regarding the removal from the chart or change in position of important detail such as rocks, lights, beacons, prominent objects, bridges, docks, and structures along the water front. *A comparison of this sheet with chart 1255 was made and the difference noted being along the outer coast. This sheet indicates the inlet south; and the shoreline west of the chart location. The marsh, in general, has remained the same.*
8. ~~The span, draw and clearance of bridges are shown. (Par. 16c.)~~
9. ✓ The data furnished by the Field Inspection ~~is adequate.~~ *is in the "B" prints only, which cover the inland waterway. (See "Compilation (C)" p. 44th.)*

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.



10. ✓ The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
11. ✓ The descriptive report also contains all additional information required in photo topography as prescribed in the instructions and in the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
12. ✓ The descriptions of recoverable stations and references to shore line were <sup>not</sup> accomplished on Form 524, and scaling of positions ~~checked.~~ (Par. 29, 30 and 57.) *attached to this report (5043) is a list of beacons located on T-4761 and transferred to the sheet.*
13. ✓ A list of landmarks for charts was <sup>not</sup> furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.) *T-4761 states that no landmarks of value for charting fell within the limits of the photo.*
14. ✓ The geographic datum of the sheet is *N.A. 1927* and the reference station is correctly noted. (Par. 34.)
15. ✓ Junctions with contemporary surveys are adequate.
16. ✓ Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.) *Geographic names agree with the chart. For Geog. Names see T4249 and D.R.*
17. ✓ The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)
18. ✓ No additional surveying is recommended.
19. Remarks: *This sheet was compiled in the Wash., D.C. office.*

20. Examined and approved:

*O. S. Reading*  
Chief of Party

21. Remarks after review in office:

Reviewed in office by: *Frank G. Enkine* March 20, 1934

Examined and approved:

*K. T. Adams*  
Chief, Section of Field Records

*F. O. Solbert*  
Chief, Division of Charts

*J. D. Dorden*  
Chief, Section of Field Work

*G. W. Rude*  
Chief, Division of  
Hydrography and Topography.

*Applied to Ch. 1235. Oct. 1934. N. S. Gause*