**DEPARTMENT OF COMMERCE**

**U.S. COAST AND GEODETIC SURVEY**

**R. S. Patton**

**Director**

**State:** North Carolina

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Air Photo</th>
<th>Topographic</th>
<th>Sheet No. 5043.</th>
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<tbody>
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</table>

**LOCALITY**

Atlantic Coast

Virginia Creek to Queen Inlet

---

**1934**

**CHIEF OF PARTY**

O. S. Reading
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 at 3:55 p.m. 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 intraoastal 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 "P" print only. Inspection was lacking in areas along the coastline. However, not much difficulty was experienced in delineating the coastline except at the inlets.

/Σ/ †/
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 imposition of well defined detail of importance for charting and of ten meters for other detail.

Respectfully submitted

(Sgd.) Leonard A. McCamp.

Leonard A. McCamp

Approved:

O. J. Reading
# Recoverable Topographic Stations

<table>
<thead>
<tr>
<th>Description</th>
<th>Position</th>
<th>Remarks</th>
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<tbody>
<tr>
<td></td>
<td><strong>Lat.</strong></td>
<td><strong>Long.</strong></td>
</tr>
<tr>
<td>Bn. No. 28</td>
<td>34° 21'</td>
<td>77° 40'</td>
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<tr>
<td>Bn. No. 32</td>
<td>34° 20'</td>
<td>77° 42'</td>
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<tr>
<td>Bn. No. 35</td>
<td>34° 19'</td>
<td>77° 42'</td>
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<tr>
<td>Bn. No. 34</td>
<td>34° 18'</td>
<td>77° 43'</td>
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<tr>
<td>Bn. No. 36</td>
<td>34° 17'</td>
<td>77° 44'</td>
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<tr>
<td>Bn. No. 40</td>
<td>34° 16'</td>
<td>77° 45'</td>
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*These stations were transferred from T-4761 to T-5043*
Revision:

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

Photograph No. (MSS-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 D. Nelson
<table>
<thead>
<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
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<tr>
<td>Queen Inlet</td>
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<td>Mason Inlet</td>
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<td>Rich Inlet</td>
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<td>Long Pt.</td>
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<td>Pending with U.S. N.B.</td>
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No name listed in P.R. 75043

L. Heck 1/23/42
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..................................................

REGISTER NO. 5043

State...North Carolina..................................................

General locality...Atlantic Coast.........................................

Locality...Virginia Creek to Queen Inlet.................................

Photographs: January 29, 1933


Scale: 1/20,000........ Date........

Lieutenant Goodrich, Pilot.

Vessel FAIRCHILD F. - LA aeroplane...Sgt. Matos, Photographer.

Compilation

Chief of party...O. S. Readeing

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

Surveyed by A. A. McGann

Inked by A. 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, September, 1933.

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

Control verified by L. A. McGann, September, 1933.
Title (Par. 56) Virginia Creek to Queen Creek, Atlantic Coast, North Carolina

Chief of Party J. L. Casey

Compiled by L. W. McFerrin

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 rocks, and legends concerning 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 1295 was made and the following noted: the chart shows the harbor on the chart similar to that on the chart marked. The chart, in general, has remained the same.

8. The span, draw and clearance of bridges are shown. (Par. 16a.)

9. The data furnished by the Field Inspection is adequate. (Par. 13.)

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 accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.) A list of landmarks for charts was furnished on Form 587 and scaling of positions checked. (Par. 16d, e, 60.)

13. A list of landmarks for charts was furnished on Form 587 and scaling of positions checked. (Par. 16d, e, 60.) T-4761 states that no landmarks were found in locating fill within the limits of the sheet.

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 Geo. Names see T-4249 and DR.

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 completed in the Washington office.

20. Examined and approved:  
   
   Chief of Party

21. Remarks after review in office:

Reviewed in office by: Frank J. Warchun, Nov. 20, 1934

Examined and approved:

K. F. Adams
Chief, Section of Field Records

F. W. Hobart
Chief, Division of Charts

J. B. Donahue
Chief, Section of Field Work

E. C. Steele
Chief, Division of Hydrography and Topography.

Applie F. Ch. 1235 - Dec. 1934. W. J. Samuel