

5557

Form 504  
Rev. Dec. 1933  
DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY  
R. S. PATTON, DIRECTOR

## DESCRIPTIVE REPORT

Topographic } Sheet No. T - 5557  
~~Hydrographic~~

State North Carolina.

### LOCALITY

Pamlico River.

Goose Creek. (Upper Part.)

~~1935~~  
Date of Photos Oct 20, 1934.

CHIEF OF PARTY

S. B. Grenell

Applied to Drawing of Chart 537, Dec 7, 1936, H.B.  
Applied to chart No 832, Jan. 21, 1937. R.L.J.  
Applied to chart Correction 1231. May 16, 1937 H.E.M.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. T - 5557

REGISTER NO.

State North Carolina.

General locality Pamlico River

Locality Goose Creek, (upper Part.)

Scale 1:10,000 Date of survey April -- June, 1935

Vessel Air Photo Compilation Party # 18.

Chief of party S. B. Grenell. *S. B. Grenell*

Surveyed by

Inked by F. C. Ebaugh, Jr.

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated December 14, 1934

Remarks:

\* *Blueprint on scale 1:9708*

# NOTES ON COMPILATION

One copy of this form must accompany each chart from beginning to completion. The last draftsman, whose name appears on this form, is responsible for it and all personnel will endeavor to keep these forms up to date and correctly posted. This form is very important inasmuch as the final Descriptive Report of the Chart compiled is based upon the information contained herein.

SHEET NO. T-5557

PHOTO NO. <sup>(M 79) 1</sup>  
~~(M 80) 13~~ <sup>(M 79) 15</sup> PHOTO NO. ~~(M 80) 22~~  
~~(M 80) 23~~ <sup>(M 80) 20</sup>  
 BY START FINISH

|                          |                          |                |                |
|--------------------------|--------------------------|----------------|----------------|
| ROUGH RADIAL PLOT        | <u>F. B. Hickman</u>     | <u>4/24/35</u> | <u>4/30/35</u> |
| SCALE FACTOR (1.0)       | <u>F. B. Hickman</u>     | <u>4/24/35</u> | <u>4/30/35</u> |
| SCALE FACTOR CHECKED     | <u>S. B. Grenell</u>     |                | <u>4/30/35</u> |
| PROJECTION               | <u>A. M. Gruber</u>      | <u>5/1/35</u>  | <u>5/1/35</u>  |
| PROJECTION CHECKED       | <u>J. C. Tison, Jr.</u>  | <u>5/1/35</u>  | <u>5/1/35</u>  |
| CONTROL PLOTTED          | <u>F. B. Hickman</u>     | <u>5/2/35</u>  | <u>5/2/25</u>  |
| CONTROL CHECKED          | <u>A. M. Gruber</u>      | <u>5/3/35</u>  | <u>5/3/35</u>  |
| TOPOGRAPHY TRANSFERRED   |                          |                |                |
| TOPOGRAPHY CHECKED       |                          |                |                |
| SMOOTH RADIAL LINE PLOT  | <u>F. B. Hickman</u>     | <u>5/6/35</u>  | <u>5/9/35</u>  |
| RADIAL LINE PLOT CHECKED | <u>S. B. Grenell</u>     |                | <u>5/9/35</u>  |
| DETAIL INKED             | <u>F. C. Ebaugh, Jr.</u> | <u>5/10/35</u> | <u>6/27/35</u> |

AREA DETAIL INKED 18.0 sq. Statute Miles

LENGTH OF SHORELINE OVER <sup>200</sup>~~500~~ m. 21.8 Statute Miles

LENGTH OF SHORELINE UNDER <sup>200</sup>~~500~~ m. 15.4 Statute Miles

GENERAL LOCATION North Carolina. Pamlico River.

LOCATION Goose Creek. (upper Part.)

DATUM STATION Spring Creek, 1935 Latitude 35 - 19 - 31.24 (962.8m)  
N. A. 1927 Datum. Longitude 76 - 39 - 00.90 (22.7m)

## REPORT OF COMPILATION:

### RADIAL LINE PLOT:

The standard radial line plot method was used in compiling this sheet; with no particular difficulties encountered other than scale differences in prints. This difficulty was overcome by using the same methods previously resorted to in connection with all pictures for this project.

All control stations on this compilation were held except for triangulation station "Bond" 1914-33. By checking against topographic sheets of the area executed by the party of J. A. Bond it was found that this station had been erroneously located on the prints by the field inspection party.

Common points to adjacent flights were well selected and held throughout the plot.

The scale factor for this and adjoining compilations T-5558 on the East and T-5559 on the South was the same, 1.03, and the radial plot was carried through sheet junctions by sticking the sheets together.

### ADJUSTMENT OF PHOTOGRAPHS:

The photographs showed very little tilt, and adjustments were made fairly simple by well selected and distributed radial points. Occasional interlacing to establish additional points was necessary in areas well out on the wing prints where tilt was excessive.

### INTERPRETATION:

Photographs were clear except on extremities of wings and in a few places where overhanging trees obscured the shoreline. The stereoscope was used to bring out detail and shoreline in doubtful areas.

Standard topographic symbols were used to indicate all topographic detail.

### COMPARISONS WITH CONTEMPORARY SURVEYS:

Junctions with adjoining compilations were made in this office and are complete and satisfactory.

Compilation shoreline was compared with topographic sheets "G" and "M", executed by party of J. A. Bond in 1935, and discrepancies were investigated and adjusted in this office. See Special Report by S. B. Grenell, Chief of Party.

### COMPARISONS WITH OTHER SURVEYS:

This area is covered by U. S. C. & G. S. Chart #1231, and a comparison with compiled detail indicates a general agreement; making unnecessary the removal of any detail from the chart.

### ACCURACY AND COMPLETENESS:

The area covered on this compilation is complete in every detail as nearly as can be determined from the photographs. The compilation should have a probable error in well defined detail of not more than 10 meters and in less well defined detail of not more than 20 meters.

REPORT OF COMPILATION (CONTINUED):PHOTOGRAPHS:

| Photo. Nos.       | Time    | Date     | Tide      |
|-------------------|---------|----------|-----------|
| ( M 79 ) 1 -- 15  | 9:30 AM | 10/20/34 | No tide.  |
| ( M 80 ) 11 -- 22 | 1:45 PM | 10/20/34 | No tide.  |
| ( M 80 ) 23 -- 30 | 1:45 PM | 10/20/34 | No tide.* |

\* Centers of pictures for the flight last named above fall on Compilation T-5558, which joins this compilation on the east, but some detail along the eastern border of this compilation was obtained from them by sticking the two sheets together.

See following pages for "Place Names".

Compilation No. 5557.

## NAMES

Legend:

W. E. -- Well established local name known throughout large area.  
 L. N. -- Local name known in immediate area only.  
 O. S. -- Appears on old Topographic Sheet.  
 C. ----- Charted.

| NAME                        | LEGEND                       | REMARKS   |
|-----------------------------|------------------------------|---|
| Muddy Creek.                | C. - O. S.                   |   |
| Reed Point.                 | W. E.                        |   |
| Davis Creek.                | W. E.                        | Family name.  |
| Brown Place.                | L. N.                        | Family name.  |
| Whitehurst Point.           | L. N.                        | Family name.  |
| Strawhorn Creek.            | W. E.                        |   |
| Cypress Branch.             | W. E.                        |   |
| East Prong.                 | W. E.                        |   |
| Herring Point.              | W. E.                        |   |
| Ditch Creek.                | W. E.                        |   |
| The Ditch.                  | C. - O. S. (T1213)           |   |
| Reed Hammock.               | W. E. - O. S. (T1213)        | Spelled Hammock   |
| Goose Creek.                | C. - O. S. (T1213)           |   |
| Old Field Point.            | L. N.                        | From old field on that point.   |
| Hatter Creek.               | L. N.                        | Family name.  |
| Bostic Point.               | W. E.                        | Incorrectly charted & located on old Topo sheet as "Clark Point".           |
| Lower Spring Creek.         | C. - O. S. (T1213)           |   |
| Ovalton Creek.              | W. E.                        |   |
| Old Mill Point.             | W. E.                        | From old mill on point.   |
| Mill Creek.                 | W. E.                        | From mill once located there.   |
| Tar Landing Gut.            | W. E.                        |   |
| Pitch Hole Gut.             | W. E.                        |   |
| Persimmon Tree Landing Gut. | L. N.                        |   |
| Alliance Wharf Landing.     | L. N.                        | From old "Alliance Club" once located nearby.                               |
| Gray Gut.                   | L. N.                        | Family name.  |
| Flower Point.               | L. N.                        | Family name.  |
| Betty Creek.                | L. N.                        |   |
| Betty Point.                | L. N.                        |   |
| Brick Hill Point.           | W. E.                        |   |
| Clark Point.                | W. E.                        | Incorrectly charted & located on old Topo sheet as "Tyndall Point". (T1213) |
| Log Pound. (not a N)        | L. N.                        |   |
| Tyndall Point.              | W. E.                        | Incorrectly charted & located on old Topo sheet. T1213                      |
| Peterson Creek.             | W. E.                        | Family name.  |
| Peterson Point.             | W. E.                        | Family name.  |
| Facing Gut. (Goose Cr.)     | W. E. reject a/c duplication | Family name.  |
| Facing Point.               | W. E.                        | Family name.  |
| Facing Gut. (Snede Cr.)     | L. N.                        | Family name.  |
| Cedar Point.                | L. N.                        |   |
| Northeast Prong.            | L. N.                        | This is N. E. Prong of Schoolhouse Gut.                                     |
| Schoolhouse Gut.            | L. N.                        |   |
| Fetterton Landing.          | L. N.                        | Family name.  |

Names(continued):

| NAME                               | LEGEND              | REMARKS  |
|------------------------------------|---------------------|--|
| Fetterton Gut. ✓                   | L. N.               | Family name.   |
| Snods Creek. ✓                     | C. - O. S. (1213)   |  |
| <u>S. E. Potterlee Ditch.</u> ✓    | L. N.               |  |
| Neezar Gut. ✓                      | L. N.               |  |
| Big Pond Gut. ✓                    | L. N.               |  |
| Sheep Pen Point. ✓                 | W. E.               | Sheep raised on this point.  |
| <del>Sand Beach.</del>             | W. E. <i>reject</i> |  |
| Store Point. ✓                     | C. - O. S. (1213)   |  |
| Wilkerson Creek. ✓                 | W. E.               | Family name.   |
| Paton Point. ✓                     | W. E.               | Family name.   |
| Paton Creek. ✓                     | W. E. (T1213)       | Family name.   |
| Dixon Creek. ✓                     | C. - O. S. (T1213)  |  |
| Big Marsh Gut. ✓                   | W. E.               |  |
| Convoy Gut. ✓                      | W. E.               | Boat by this name sunk here<br>25 years ago.                         |
| <u>Dixon Creek Point.</u> ✓        | W. E.               | Incorrectly charted as "Holly<br>Point".                             |
| <u>Holly Point.</u> ✓              | W. E.               |  |
| <u>Fulford Point.</u> ✓            | W. E.               | Spelled incorrectly on chart<br>& old Topo sheet as "Tulford Point". |
| Cow Hole Bay. ✓                    | W. E.               |  |
| <u>River Shore.</u> (Pamlico R.) ✓ | W. E.               | Name of shore vicinity of<br>triangulation station "Fulford 1935".   |
| <u>Long Point.</u> ✓               | W. E.               |  |
| <u>Polly Howarn Ditch.</u> ✓       | W. E.               |  |
| <u>Oyster Creek.</u> ✓             | C. - O. S. (T1213)  |  |
| <u>West End.</u> (Indian Is.) ✓    | W. E.               |  |
| <u>East Point.</u> (Indian Is.) ✓  | W. E.               |  |
| <u>How Point.</u> (Indian Is.) ✓   | W. E.               |  |
| <u>Sheepskin Creek.</u> ✓          | W. E.               |  |
| <u>Robbin Gut.</u> ✓               | W. E.               |  |
| <u>Indian Island.</u> ✓            |                     |  |
| <u>Pamlico River.</u> ✓            |                     |  |
| <u>Goose Creek Island.</u> ✓       |                     |  |

Respectfully submitted:

F. C. Ebaugh, Jr.  
Draftsman.

Field Review by:

John Tassapoulos,  
Draftsman.

Names checked are approved for this compilation  
but not for charting.

Examined and Approved:

*S. B. Grenell*  
S. B. Grenell,  
Chief of Party.

Names underlined in red approved  
by KTA on 7/10/36



REVIEW OF AIR PHOTO COMPILATION T 5557 (1934)  
Scale 1:10,000

Comparison with Graphic Control Surveys

T 6405 (1935), 1:10,000

On survey T 6405 the shoreline has been located in pencil, with an accuracy only adequate for boat sheet purposes. Recoverable details and plane table stations, however, have been located with the usual standards of accuracy and agree with the compilation except in the following cases:

There is a disagreement of shoreline at the following stations which are shown on T 6405 on the high water line. The differences cannot be reconciled and they are probable errors of the plane table, where either the shoreline has been erroneously sketched through the station or the station itself has been inaccurately located.

|                             |                    |  |
|-----------------------------|--------------------|--|
| SLO at 35° 19.7', 76° 34.2' | 0.8 mm. difference | <i>Differences<br/>largely due to<br/>sketching of plane table<br/>shoreline which is<br/>in pencil only. Bgg.</i> |
| HEF at 35° 19.9', 76° 35.6' | 0.8 mm. difference |  |
| RED at 35° 20.5', 76° 37.6' | 0.8 mm. difference |  |
| BAC at 35° 20.6', 76° 37.4' | 2.0 mm. difference |  |
| LOW at 35° 19.5', 76° 36.6' | 0.8 mm. difference |  |

In each case the photo plot of the shoreline has been checked. All detail on T 6405 within this area is shown on this compilation except buoys, non-recoverable plane table positions and the magnetic declination.

T 6406 (1935), 1:10,000

The survey T 6406 is a finished graphic control survey showing the shoreline as well as other details accurately located.

There is a disagreement of shoreline at topographic station ELF at 35° 20.6', 76° 38.2'. This difference is 1.0 mm and is probably a plane table error as the photo plot of shoreline has been checked here.

West of longitude 76° 40.7' the shoreline has been transferred to the compilation on account of poor definition of the photographs in this area.

The duckblinds west of Indian Island have been transferred in this office.

All detail on T 6406 within this area is shown on this compilation except buoys and non-recoverable plane table positions.

T 6411 (1935), 1:10,000

On survey T 6411 the shoreline has been shown in pencil located with an accuracy only adequate for boat sheet purposes. Recoverable details and plane table stations, however, have been located with the usual standards of accuracy and agree with the compilation except in the following cases.

There is a disagreement of shoreline at the following stations which are shown on T 6411 on the high water line. The differences can not be reconciled. They are probably plane table errors where either the shoreline has been erroneously sketched through the station or the station itself has been inaccurately located.

|  |                    |   |
|--|--------------------|---|
| DIE at 35° 19.6', 76° 39.1'                | 0.8 mm. difference | <i>Differences due largely to plane table</i> |
| VEG at 35° 19.2', 76° 38.1'                | 0.8 mm. difference | <i>sketching of shoreline</i>                 |
| LAW at 35° 18.8', 76° 37.6'                | 0.5 mm. difference | <i>which is shown in pencil</i>               |
| MAP at 35° 18.8', 76° 37.8'                | 0.5 mm. difference | <i>only B.G.F.</i>                            |
| RAY in Goose Creek at 35° 18.3', 76° 37.4' | 1.3 mm. difference |   |

The gas pump and the pier at 35° 19.2', 76° 37.4' have been transferred in this office.

All details on T 6411 are also shown on this compilation except buoys, non-recoverable plane table stations and the magnetic declination.

T 6414 (1935), 1:10,000

On survey T 6414 the shoreline as well as other details have been accurately located. All details have been inked in. The area on T 6414 common to this compilation is in longitude 76° 41'. There is good agreement of shoreline. The limits of marshes and wooded areas are, however, incorrectly shown on T 6414. All detail on T 6414 is also shown on this compilation over the common area except non-recoverable plane table positions.

Comparison with Previous Topographic SurveysT 1213 (1870), 1:20,000

The survey for T 1213 covers the entire area of this compilation in addition to other areas. The buildings on Indian Island are gone. The sawmill in Lower Spring Creek at 35° 19.6', 76° 38.1' is no longer in existence. T 1213 is superseded by this compilation over the common area.

Comparison with New Hydrographic Surveys

H 5874 (1935), 1:10,000  
 H 5876 (1935), 1:10,000  
 H 5919 (1935), 1:10,000

On H 5874 and H 5876 the shoreline agrees very closely with the compilation shoreline. Shoreline on H 5919 between longitudes  $76^{\circ}38'$  and  $76^{\circ}41'$  along latitude  $35^{\circ}20.5'$  has apparently been taken from the graphic control survey T 6406 rather than the compilation. It is therefore not in exact agreement with the compilation but the differences do not exceed 2.0 mm. *See previous paragraph regarding shoreline on T 6406.*

Comparison with the Charts, Nos. 1231, 3253

The report for this compilation does not mention landmarks. The reports for graphic control surveys T 6405, T 6406 and T 6411 state that there are no landmarks for charts in this area except the non-floating aids to navigation which are shown on this compilation.

The numbers of these aids in Goose Creek have been changed since their positions were determined by triangulation. According to the Light List for 1936 which is corrected to Dec. 15, 1935 no changes of positions of these lights have been made since 1934. The new numbers are shown on the compilation in parenthesis after the station name. These changes of numbers, however, are not shown in the Light List for 1936.

The control is adequate to support the estimate of accuracy of location given on page 1 of this report. This estimate is somewhat larger than the usual estimate on account of the trouble due to the camera being out of adjustment. On pages 5 to 8a, report for compilation T 5550, a discussion of camera errors and the need for more than the usual amount of ground control is given.

Triangulation station Indian Island Slue Bn. 1933 was plotted on this compilation in this office by L.A. McGann and checked by R.M. Berry.

L.A. McGann

May 8, 1936.

B.G. Jones

## REVIEW OF AIR PHOTO COMPILATION NO. T-5557

Chief of Party: *S.B. Grenell*Compiled by: *F.C. Ebaugh Jr.*Project: *North Carolina Coast*Instructions dated: *Dec. 14, 1934*

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b, c, d, e, g and i; 26; and 64) ✓
2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g, n) ✓
3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d, e) ~~None~~  
*Graphic Control Surveys T-6406, T-6411, T-6405, all 1935 (1/10,000) were made in this area.* ✓
4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28) *None transmitted.* ✓
5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report. ✓
6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c, h, i) ✓
7. High water line on marshy ~~and mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44) ✓  
*No sand beach areas on this compilation.* ✓

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

8. ~~The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)~~ *None shown.* ✓
9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)  
*No recoverable objects have been located and described.* ✓  
*Lam.*
10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)  
*There are no objects suitable as landmarks for charts in this area. Chart Letter 180 (1936) covers the non-floating aids to navigation.* ✓  
*Lam.*
11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c) *None* ✓  
*No bridges over navigable waters of this compilation.* ✓  
*Lam.*
12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k) ✓
13. The geographic datum of the compilation is *N.A. 1927* and the reference station is correctly noted. ✓
14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j) ✓
15. The drafting is satisfactory and particular attention has been given the following:
  1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report. ✓
  2. The degrees and minutes of Latitude and Longitude are correctly marked. ✓



3. All station points are exactly marked by fine black dots. ✓
4. Closely spaced lines are drawn sharp and clear for printing. ✓
5. Topographic symbols for similar features are of uniform weight. ✓
6. All drawing has been retouched where partially rubbed off. ✓
7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground. ✓

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

16. No additional surveying is recommended at this time. ✓

17. Remarks:

18. Examined and approved;

12/16/35

*J.B. Schell*

Chief of Party

19. Remarks after review in office:

Reviewed in office by: L A McGarr

✓ B.G. Jones

Examined and approved:

*E. K. Green*

Chief, Section of Field Records

*L.O. Albert*

Chief, Division of Charts

*Fred. L. Peacock*

Chief, Section of Field Work

*A. H. Hall*

Acting

Chief, Division of Hydrography and Topography.