

5559

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

DESCRIPTIVE REPORT

Topographic Sheet No. T - 5559
~~Hydrographic~~

State North Carolina.

LOCALITY

Pamlico River.

Goose Creek (Lower Part.)

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

CHIEF OF PARTY

S. B. Grenell.

Applied to chart No. 832 Jan 21, 1937 R.L.J.
Applied to Chart Correction 1231 May 14, 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-5559

REGISTER NO.

State North Carolina.

General locality Pamlico River

Locality Goose Creek, (Lower Part.)

Scale 1:10,000^{*} Date of survey April - July, 1935

Vessel Air Photo Compilation Party # 18.

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

Surveyed by

Inked by J. W. Osteen, 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 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. <u>T-5559</u>			
PHOTO NO.	(M 80) 12	TO PHOTO NO.	(M 80) 13
	(M 80) 28		(M 80) 44
	(M 79) 14		(M 79) 28
	BY	START	FINISH
	(M 79) 191		(M 79) 200
ROUGH RADIAL PLOT	<u>F. B. Hickman.</u>	<u>4/24/35</u>	<u>4/30/35</u>
SCALE FACTOR(1.03)	<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>	<u>4/30/35</u>
PROJECTION	<u>A. M. Gruber.</u>	<u>5/1/35</u>	<u>5/1/35</u>
PROJECTION CHECKED	<u>S. B. Grenell.</u>	<u>5/2/35</u>	<u>5/2/35</u>
CONTROL PLOTTED	<u>J. W. Griffeth.</u>	<u>5/3/35</u>	<u>5/4/35</u>
CONTROL CHECKED	<u>F. B. Hickman.</u>	<u>5/4/35</u>	<u>5/4/35</u>
TOPOGRAPHY TRANSFERRED			
TOPOGRAPHY CHECKED			
SMOOTH RADIAL LINE PLOT	<u>F. B. Hickman.</u>	<u>5/6/35</u>	<u>5/17/35</u>
RADIAL LINE PLOT CHECKED	<u>S. B. Grenell.</u>		<u>5/17/35</u>
DETAIL INKED	<u>J. W. Osteen, Jr.</u>	<u>5/20/35</u>	<u>7/25/35</u>
AREA DETAIL INKED	<u>16.2</u>	sq. Statute Miles	
LENGTH OF SHORELINE OVER ²⁰⁰ 300 m.	<u>17.5</u>	Statute Miles	
LENGTH OF SHORELINE UNDER ²⁰⁰ 300 m.	<u>18.6</u>	Statute Miles	
GENERAL LOCATION	<u>North Carolina -- Pamlico River</u>		
LOCATION	<u>-- Goose Creek. (Lower Part.)</u>		
DATUM STATION	<u>Hobucken, 1935</u>	Latitude	<u>35 - 14 - 39.03 (1202.8m)</u>
	<u>N. A. 1927 Datum.</u>	Longitude	<u>76 - 35 - 30.31 (766.3m)</u> (unadjusted)

REPORT OF COMPILATION:

RADIAL LINE PLOT:

The general report for compilations T-5550 to T-5566 is attached to Descriptive report T-5550.

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 other pictures for this project.

Except for faulty and inconsistent pricking on occasional prints, all control stations on this compilation held throughout the radial plot. Common points to adjacent flights were well selected and held throughout the plot.

The scale factor for this and adjoining compilations T-5557 on the North, and T-5558 and T-5560 on the East, was the same, 1.03, and the radial plot was carried through sheet junctions by sticking the sheets together.

T-6411 and T-6412 Shoreline located by the party of J. A. Bond on topographic sheets ~~"GA"~~ and ~~"GB"~~, covering the same area, checked radial points located for this compilation.

ADJUSTMENT OF PHOTOGRAPHS:

No excessive tilt was encountered in the photographs for this compilation, and adjustments were made fairly simple by well selected and distributed radial points. In no instance was it found necessary to establish additional points by interlacing.

INTERPRETATION:

Photographs were clear with detail sharp and well defined except for several prints of the M80 flight in vicinity of Lat. 35 - 14.5 and Long. 76 - 35.0 near the extreme eastern edge of the compilation. The stereoscope was used to bring out detail in any doubtful area.

Standard topographic symbols were used to indicate topographic details except for cultivated areas, which are clearly outlined on the compilation by intricate systems of drainage ditches, easily discernable on the photographs. In three instances on Campbell Creek piling in the water has been shown on the compilation by dashed lines.

Near Lat. 35 - 18 and Long. 76 - 34 at a road junction, a filling station is shown on the compilation partly in the road, with the road line stopped short on either side of the building. This condition was clearly discernable on the photographs, and its existence verified by the field inspection party.

COMPARISONS WITH CONTEMPORARY SURVEYS:

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

T-6412 Compilation shoreline was compared with topographic sheets ~~"GA"~~ and ~~"GB"~~ executed in 1935 by the party of J. A. Bond, and discrepancies were investigated and adjusted in this office. See Special Report by S. B. Grenell, Chief of Party.

REPORT OF COMPILATION (CONTINUED):

COMPARISONS WITH OTHER SURVEYS:

This compilation was compared with U. S. C. & G. S. Chart #1231, covering the same area, and except for a few changes in the road system, the compiled detail was found to agree in general with the charted detail. There were no other available charts or topographic sheets with which to check the compilation further.

ACCURACY AND COMPLETENESS:

The area covered on this compilation is complete in every detail in so far 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.

PHOTOGRAPHS:

Photo. Nos.	Time	Date	Tide
(M 80) 1 -- 13	1:35 PM	10/20/34	No tide.
(M 80) 28 -- 44 *	2:00 PM	10/20/34	No tide.
(M 79) 14 -- 28	9:30 AM	10/20/34	No tide.
(M 79) 191 -- 200	10:30 AM	10/20/34	No tide.

See following pages for "Place Names".

** The centers of these photos fall on adjoining
compilations T-5558, and T-5560.*

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
✓Sand Beach Creek.	W. E.	
✓Pasture Point.	C., O. S.✓	
✓Myrtle Mash Gut.	L. N.	
✓Cow Gallus Gut.	L. N.	
✓Cuff Tar Kiln Creek.	L. N. (Tarkiln one word)	
✓Lee Creek.	L. N.	Family name.
✓Syfax Point.	W. E.	Family name.
✓Welshman Gut.	L. N.	
✓Old Field Point. (Campbell Cr.)	W. E.	
✓Little Lighter Log Gut.	L. N.	
✓Big Lighter Log Gut.	L. N.	
✓Drum Point.	L. N.	
✓Pate Creek.	L. N.	
✓Dumplin Point.	L. N.	
✓Carie Creek.	L. N.	
✓Ferristte Place.	W. E.	
✓Smith Creek.	W. E.	
✓Mill Place.	W. E.	
✓Huskie Point.	L. N.	
✓Goose Creek.	C., O. S.✓	
✓Cow Gallus Creek.	W. E.	
✓Hunting Creek.	W. E.	
✓Mary Tom Creek.	L. N.	Originally "Goose Creek"
✓Upper Spring Creek.	C., O. S.✓	
✓Campbell Creek.	C., O. S.✓	
✓Long Neck Point.	C., O. S.✓	
✓Dead Duck Point.	W. E.	
✓Slade Landing Creek.	W. E.	
✓Long Creek.	L. N.	
✓Alligator Creek.	W. E.	
✓Mill Seat.	W. E.	
✓Mallard Creek.	W. E.	
✓Otter Creek.	W. E.	
✓Eastham Creek Point.	W. E.	
✓Mud Gut.	L. N.	
✓Dall Creek.	W. E.	
✓Eastham Creek.	C., O. S.	
✓Hobucken, N. S. (Postoffice)	W. E.	
✓Williamson Creek Landing.	W. E.	
✓Henry Creek.	L. N.	
✓Bay Hummock.	W. E.	
✓Lowland, N. S. (Postoffice)	W. E.	
✓Jones Bay.	C., O. S.✓	
✓Goose Creek Island.	C., O. S.✓	

Per Jordan's inquiry to
P.M. at Hobucken
and reply 11/11/39 it
is at head of creek
on W. side

names checked approved for this compilation
but not intended for charting

Names underlined in red approved
by K.T.A on 1/10/36

Field Review by...John Tassapoulos, Draftsman.
Examined and Approved: *[Signature]*
S. B. Grenell, Chief of Party.

Respectfully submitted:
J. W. Osteen, Jr.,
Draftsman. *[Signature]*

REVIEW OF AIR PHOTO COMPILATION T 5559 (1934)
Scale 1:10,000

Comparison with Graphic Control Surveys

(1) On the following graphic control surveys the shoreline has been shown in pencil ~~and was~~ 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 cases mentioned below.

(2) T 6411 (1935), 1:10,000. The pile shown on T 6411 in Eastham Creek was transferred to the compilation in this office.

There is a disagreement of shoreline at the following stations:
Topo. station TUE at lat. $35^{\circ} 17.7'$, long. $76^{\circ} 35.2'$, 0.7 mm. difference
Topo. station RUT at lat. $35^{\circ} 17.9'$, long. $76^{\circ} 36.1'$, 1.1 mm. difference
These stations fall outside the compilation high water line whereas they are shown on T 6411 as on the high water line. These can be accounted for only as plane table errors as the photo plot of the shoreline has been checked at these points. Topo. stations on both sides of those in error are in agreement with the compilation.

(3) T 6412 (1935), 1:10,000. The piles in Campbell Creek were transferred in this office, as well as the bench marks which are described on Form 524, the U.S.E. mark and the reference mark located near triangulation station HOBUCKEN, 1935; the stack at lat. $35^{\circ} 16.2'$, long. $76^{\circ} 34.8'$. These transfers were checked by R. M. Berry, May 15, 1936.
R. M. Berry

There is a disagreement of shoreline at the following stations:
Topo. station NAM at lat. $35^{\circ} 17.5'$, long. $76^{\circ} 39.9'$, 0.8 mm. difference
Topo. station US at lat. $35^{\circ} 16.6'$, long. $76^{\circ} 37.8'$, 0.7 mm. difference
Station NAM falls outside while station US falls inside the compilation high water line, whereas they are shown on T 6412 as on the high water line. These can be accounted for only as plane table errors as the photo plot of the shoreline has been checked at these points. Topo. stations adjacent to those in error are in agreement with the compilation.

(4) The topo. stations mentioned above under paragraphs (2) and (3) as being in error were apparently rodded in. However, these errors do not indicate an error in the plane table traverse. They are isolated errors.

(5) Over the respective common areas all details on T 6411 and T 6412 are shown on this compilation except the magnetic declination and non-recoverable plane table positions.

Comparison with Previous Topographic Surveys

T 1095 (1869), 1:20,000. Survey T 1095 covers the western shore of Pamlico Sound from Bay River to Pamlico Point. There have been changes in the alignment of roads due to the construction of the Intracoastal Waterway. Some wooded areas shown on T 1095 have been cleared and are now under cultivation. Survey T 1095 is superseded by this compilation over the common area.

T 1213 (1870), 1:20,000. Survey T 1213 covers Pamlico River from Pamlico Point to Indian Island including Goose Creek. Comparatively small changes have occurred since time of survey for T 1213. Survey T 1213 is superseded by this compilation over the common area.

Comparison with New Hydrographic Surveys

H 5876 (1935), 1:10,000. There are no conflicts between the hydrography of H 5876 and the shoreline of this compilation.

Comparison with Charts Nos. 1231, 3253

The report for this compilation does not mention landmarks. According to the descriptive report for graphic control surveys T 6411 and T 6412 there are no landmarks in this area except non-floating aids to navigation. *(One stack, see Chart letter 199 of 1936)*
RLJ

The numbers but not the positions of these lights have been changed since their positions were determined by triangulation, according to information furnished by the U. S. Lighthouse Service. The new numbers are shown on the compilation in parenthesis after the station name. The changes of numbers have been reported in Notice to Mariners, January 1936, but the new numbers are not shown in the Light List for 1936.

The control is adequate to support the estimate of accuracy given on page 3. Refer to pages 3a to 8a, report for compilation T 5550 for a discussion of camera errors in this area and the need for more than the usual amount of ground control.

May 16, 1936.

Leonard A. McGowan
- F. G. Enghine

REVIEW OF AIR PHOTO COMPILATION NO. 5559

Chief of Party: *S. B. Grene II*Compiled by: *L. W. Osteen 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-6411⁽¹⁹³⁵⁾ and T-6412⁽¹⁹³⁵⁾ cover 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 in this area

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) ✓
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 landmarks of importance for charting in this area. ✓
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) ✓
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; 12/17/35


Chief of Party

19. Remarks after review in office:

Reviewed in office by: *Lemard A. Hulburt* May 16, 1936.
- F. G. Eiskine

Examined and approved:

K. T. Adams
Asst Chief, Section of Field Records
L. O. Solbert
Chief, Division of Charts

Fred. L. Peacock
Chief, Section of Field Work
W. H. Rose
Acting Chief, Division of Hydrography and Topography.