

5554

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

# DESCRIPTIVE REPORT

Topographic } Sheet No. 5554  
~~Hydrographic~~

State North Carolina

## LOCALITY

~~North Carolina East Coast~~

Pamlico ~~Pungo~~ River

WADE POINT

~~1935~~  
Date of photos. Oct. 9, 1934.

CHIEF OF PARTY

S. B. Grenell

5554

F

Applied to Drawing of Chart 537, Dec. 7, 1936. H.B.  
Applied to chart No. 832, Jan. 21, 1937 R.L.J.  
Applied (in part) to Car. 1231 April 8, 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. ....

REGISTER NO. 5554

State North Carolina

General locality Pamlico ~~North Carolina East Coast~~ Pange River.

Locality ~~Pange River~~ Wade Point  
photos

Scale 1:10,000 Date of ~~Survey~~ 10-9-34, 19...

~~Vessel~~ Air Photo Compilation Party No. 18

Reviewed and recommended for approval:

Chief of party Lieut. (j.g.) S. B. Grenell *S. B. Grenell*

Photos plotted by:

~~Surveyed by~~ F. B. Hickman

Inked by G. F. Lenoir, Jr.

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

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

Instructions dated December 14, 1934, 19...

Remarks: Compilation of aerial photos Nos.: (M-78) 148 to 171

\*\*\*  
*Blueprint scale 1/10,000.*

--NOTES OF 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 personnell 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. 5554

M-78

M-78

PHOTO NO. 148 to PHOTO NO. 171

BY	START	FINISH
ROUGH RADIAL PLOT <u>S. B. Grenell</u>	<u>2-24-35</u>	<u>2-26-35</u>
SCALE FACTOR (1.00) <u>S. B. Grenell</u>	"	"
SCALE FACTOR CHECKED <u>F. B. Hickman</u>	"	"
PROJECTION <u>A. M. Gruber</u>	<u>4-5-35</u>	<u>4-5-35</u>
PROJECTION CHECKED <u>S. B. Grenell</u>	"	"
CONTROL PLOTTED <u>W. R. Taylor, Jr.</u>	<u>4-6-35</u>	<u>4-6-35</u>
CONTROL CHECKED <u>G. F. Lenoir, Jr.</u>	"	"
TOPOGRAPHY TRANSFERRED _____	_____	_____
TOPOGRAPHY CHECKED _____	_____	_____
SMOOTH RADIAL LINE PLOT <u>F. B. Hickman</u>	<u>4-6-35</u>	<u>4-9-35</u>
RADIAL LINE PLOT CHECKED <u>S. B. Grenell</u>	"	"
DETAIL INKED <u>G. F. Lenoir, Jr.</u>	<u>4-10-35</u>	<u>5-27-35</u>
AREA DETAIL INKED <u>19.4</u>	Square Statute Miles	
LENGTH OF SHORE LINE OVER 200m. <u>17.1</u>	Statute Miles	
LENGTH OF SHORE LINE UNDER 200m. <u>16.2</u>	Statute Miles	
GENERAL LOCATION <u>PUNGO RIVER.</u>	<del>North Carolina East Coast</del>	
LOCATION <u>Pungo River WADE POINT</u>	_____	
DATUM STATION <u>McCullough - '35</u>	LATITUDE <u>35 - 25 - 34.17 (1053.1m)</u>	
DATUM <u>N. A. 1927</u>	LONGITUDE <u>76 - 37 - 07.94 (200.3m)</u>	

*(unadjusted)*

REPORT OF COMPILATION:

RADIAL PLOT METHOD:

This compilation was compiled by the standard radial line plot method.

The following difficulties were encountered: Some "C" and "D" prints out in scale and it was necessary to leave out cuts on such prints except through the center of the wing.

Control all held. This plot does not check shoreline by J. A. Bond up Jordan Creek. However, topo survey was not tied in to Winstead. He seems to be short by about 30 meters at upper end.

No common points. *Since this compilation is covered by a single strip of photographs there are no points of it common to any other strip. Plan.*

Joins sheet 5553 on north. Both sheets have scale factor of 1.00.

ADJUSTMENT OF PHOTOGRAPHS:

The majority of the photographs had about the average amount of tilt.

Radial points were well selected and spaced except on the north branch of North Creek latitudes  $35^{\circ} - 26'$  to  $35^{\circ} - 27'$  and Long.  $76^{\circ} - 39'$ . This area fell on the very outer edge of the C wing, the photographs being dim there and overhanging trees along the shoreline making it impossible to select sufficient good, definite radial points. By interlacing the best of these points and by use of the stereoscope the shoreline was established.

Some difficulty was encountered in adjustment of photographs due to some of the "C" and "D" wings being considerably out of scale. This appeared worst in the area Lat.  $35^{\circ} - 27'$  to  $35^{\circ} - 29'$ ; Long  $76^{\circ} - 39'$  to  $76^{\circ} - 40'$ . Interlacing of points was resorted to in this case also.

INTERPRETATION:

The pictures were clear and detail was sharply defined except on western part of sheet where the tracing was done up to the end of the "C" wing. This was too far out for the detail to be well defined on the photographs; and since there was no overlapping flight detail had to be traced from the "C" wings of the flight.

Several small private marine railways used for launching and repairing small boats appear on the compilation and are denoted by the special symbol.

COMPARISONS WITH CONTEMPORARY SURVEYS:

This sheet adjoins compilation 5552 at the north. This junction was satisfactorily made, shoreline and detail being in agreement at the junction.

Upon comparison of shoreline with topo sheets in some places a discrepancy was noted as follows: Topo sheet "J" 11/18-34. J. A. Bond; - Shoreline of Pamlico Beach, Lat.  $35^{\circ} - 23' - 20''$  (roughly); Long.  $76^{\circ} - 35'$  to  $76^{\circ} - 36'$ . This difference was about 5 meters. Upon investigation it was found that compilation was slightly off due to overhanging trees hiding the shoreline. By use of the stereoscope, the shoreline was redrawn on the photos and this checked the topo sheet. (T-6345.)

Signal on dock (lat.  $35^{\circ} - 23' - 20''$ ) (long.  $76^{\circ} - 36' - 10''$ ) off about 15 meters. Topo sheet was off in azimuth and was changed to check compilation. (T-6345.)

Shoreline Pamlico Beach Lat.  $35^{\circ} - 23' - 30''$ ; Long.  $76^{\circ} - 36'$  to  $76^{\circ} - 36' - 20''$ , off about 7 meters. Investigation showed Topo sheet to be in error, azimuth being off. Topo sheet was corrected to agree with compilation. (T-6345).

Topo Sheet "G" <sup>(T-6343)</sup> 11/11/34, J. A. Bond. - - Shoreline of Jordan Creek area bounded by lat.  $35^{\circ} - 27'$  to  $35^{\circ} - 28'$ ; long.  $76^{\circ} - 38' - 10''$  off about 30 meters. The topo sheet was found to be in error rod readings falling short. Also the topographer had nothing to tie in to at end of Jordan Creek, station Winstead not having been established at that time. However, it had been established before compilation was made and this station together with other stations were held on the plot, providing a good fix for this area, hence the compilation was accepted as correct and the topo sheet changed accordingly to check the compilations.

Topo sheet "X" <sup>(T-6413)</sup> 3/21/35 J. A. Bond. - - North branch of North Creek, Lat.  $35^{\circ} 26'$  to  $35^{\circ} - 27'$ , Long  $76^{\circ} - 39'$ , was drawn in on compilation at request of topographic party, even though it fell too far out on wing for accurate location and lack of adequate control added to changes of inaccuracy.

Shoreline of East branch of North Creek failed to check topo sheet <sup>T-6413</sup> in a few small places. Upon examination it was found that shoreline on compilation probably was in error due to inability to discern definite shoreline since dense overhanging trees obscured same. Hence, the topo sheet <sup>T-6413</sup> was accepted as correct and compilation made to agree with same.

*Topo sheet T-6406 (graphic control) also covers a portion of this compilation. See review at back for comparison. Ram.*

COMPARISONS WITH OTHER SURVEYS:

By comparison with the U. S. C. & G. S. chart #1231 the shoreline of compilation is found to be in agreement with same. The chart however fails to show a 15' bluff along Pamlico Beach Lat.  $35^{\circ} - 23' - 30''$ ; Long.  $76^{\circ} - 36'$ . This is shown on the compilation. The road system in places has changed. Several branch roads appearing on the chart should be removed as the photos fail to justify their existence.

ACCURACY AND COMPLETENESS:

This compilation should have a probable error not greater than 10 meters in well defined detail and not greater than 20 meters in less well defined detail.

PHOTOGRAPHS:

No.	to	No.	Time	Date	Stage of Tide
M-78	148	171	10:33 - 10:40 AM	10-9-34	negligible

G. F. Lenoir, Jr.  
G. F. Lenoir, Jr.  
Draftsman

Field Reviewed:

*A. M. Gruber*  
A. M. Gruber  
Surveyor

5554  
NEW PLACE NAMES

O. S. Old Topo sheet.  
L. N. Local name in immediate vicinity.  
W. E. Well established local name.  
C. Charted

<u>Name</u>	<u>Legend</u>	<u>Remarks</u>
Frying Pan Gut	W. E.	
Pamlico Beach	W. E.	Well known beach (40 - 50 years)
Adams Point	C, W.E., O.S.	
Wade Point	C., W. E.	
War Point	W. E.	
Wright Creek	W.E. - O.S.	What is shown on old Topo as <del>Warren</del> & Satterthwaite Creeks are now known as Satterthwaite Cr. The two prongs shown as Wright Cr. on old Topo are both known as Wright Creeks.
Bradley Creek	L. N.	
Poster Point	W. E.	Well known in immediate vicinity.
Mill Point	W. E.	Named from old mill on site.
Harris Point	L. N.	
The John Creek	L. N.	
Fulford Point	L. N.	
Grassy Point	C., W.E., OS.	
Linlar Bay	W. E.	Sometimes called Linlar Clark Bay & sometimes Clark Bay. Only one inhabitant knew it as Warner Bay
Field Point	W. E.	
Tarklin Creek	W. E. - O.S.	Named from kilns used to extract tar from lightwood knots.
Jordan Creek	C., W.E., O. S.	
Wilken Creek	L. N.	Family name
Winsteadville	Hamlet	No post-office
Redden Creek	L. N.	Family Name
Snederker Gut	L. N.	Named from old mill named Snederker
Spring Creek	L. N.	
Tyson Point	L.N.	Named from old mill by this name
Woodstock Point	C., - O. S.	
Ross <del>Gut</del> + Ross Creek	L. N.	
East Prong	L. N.	Is the east prong of North Creek
North Creek	C., W.E., O.S.	

GEOGRAPHIC NAMES

Date. August 22, 1935

Survey No. T-5554

Chart No. 1231

NORTH CAROLINA

Diagram No. \_\_\_\_\_

Approved by the Division of Geographic Names, Department of Interior. ✕

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Woodstock Point</u> ✓	Same			
	<u>Winsteadville</u> (Hamlet) ✓				
	<u>Redden Creek</u> ✓		Same		
	<u>Wilken Creek</u> ✓		"		
	<u>Jordan Creek</u> ✓	Same			
	<u>Snederker Gut</u> ✓		Same		
	<u>Spring Creek</u> ✓		"		
	<u>Tyson <sup>Point</sup> Creek</u> ✓		"		
	<u>Tarkiln Creek</u> ✓		"		
	<u>Field Point</u> ✓		"		
	<u>Linlar <sup>Bay</sup> Point</u> ✓		"		
	<u>North Creek</u> ✓	Same			
	<u>East Prong</u> ✓		Same"		
	<u>Grassy Point</u> ✓	Same			
	<u>Satterthwaite Creek</u> ✓		Same		
	<u>The John Creek</u> ✓		"		
	<u>Fulford Point</u> ✓		"		
	<u>Harris Point</u> ✓		"		
	<u>Mill Point</u> ✓		"		
	<u>Poster Point</u> ✓		"		
	<u>War Point</u> ✓		"		

Names underlined in red are approved.

W.J. Woods





REVIEW OF AIR PHOTO COMPILATION T 5554 (1934)  
Scale 1:10,000

Comparison with Graphic Control Surveys

T 6343 (1935), 1:10,000

On survey T 6343 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: Topographic station YOW in Jordan Creek near triangulation station Winstead, 1935. Difference amounts to 1.5 mm. Topographic station BEG at  $35^{\circ} 27.7'$ ,  $76^{\circ} 36.3'$  - 1.0 mm. difference. Topographic station ELL at  $35^{\circ} 28.15'$ ,  $76^{\circ} 36.15'$  - 1.0 mm. difference.

These stations fall inside the compilation high water line whereas they are shown on T 6343 as on the high water line. These are probably plane table errors as the photo plot of this shoreline has been checked at these points. A traverse was run up Jordan Creek by plane table and some adjustment was necessary. Triangulation station Winstead, 1935 established after the completion of this traverse was available for the photo plot.

All detail on T 6343 within this area is shown on this compilation except non-recoverable plane table positions and the magnetic declination.

T 6345 (1935), 1:10,000.

On survey T 6345 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 disagreement of shoreline at stations AT and OZ in Wright Creek. The differences are 0.3 mm. and 0.5 mm. respectively. The photo plot of the shoreline has been checked at these points.

The piles in Wright Creek at  $35^{\circ} 24.6'$ ,  $76^{\circ} 36'$  have been transferred to the compilation in this office. All stakes have also been transferred here.

All detail on T 6345 within this area is also shown on this compilation except 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 are no discrepancies between T 6406 and this compilation. The shoreline between longitudes  $76^{\circ} 36.5'$  and  $76^{\circ} 38'$  has been transferred in this office from T 6406 for it was too difficult to locate from the photographs. The net hoists and the duck blind were transferred in this office. All detail on T 6406 is shown on this compilation except the non-recoverable plane table positions.

T 6413 (1935), 1:10,000

The survey T 6413 is a finished graphic control survey showing the shoreline as well as other details accurately located. There are no discrepancies between T 6413 and this compilation. The compilation shoreline of the east branch of North Creek was made to agree with the shoreline of survey T 6413 on account of the difficulty in locating it from the photographs. The shoreline of the north branch of North Creek was traced from the photographs. This may be out of position between signal positions as the photographs are extremely dim in this area. This shoreline shown in pencil on T 6413 was taken from the compilation.

All detail on T 6413 within the area of the compilation is shown on the compilation except temporary plane table stations.

T 6413 extends westward beyond the limits of the photo compilation project.

Comparison with Previous Topographic SurveysT 1212 (1870), 1:20,000

Only a small portion of T 1212 in the vicinity of North Creek is common to this compilation. There have been changes of shoreline and culture. T 1212 is superseded by this compilation over the common area.

T 1213 (1870), 1:20,000

Only a small portion of T 1213 in the vicinity of Wade Pt. is common to this compilation. No important changes have occurred. T 1213 is superseded by this compilation over the common area.

T 1273 (1872), 1:20,000

The survey T 1273 covers the Pungo River between Wades Point and Pungo Creek. There have been changes in roads and their alignment in cultivated areas and comparatively small changes of shoreline. T 1273 is superseded over the common area by this compilation.

Comparison with New Hydrographic Surveys

H 5829 (1935), H 5918 (1935), and H 5919 (1935); all 1:10,000 scale.

There are no discrepancies between H 5829, H 5918 and H 5919 and this compilation except the shoreline differences discussed under Comparison with T 6343 and T 6345.

Comparison with Chart No. 1231

The report for this compilation does not mention landmarks. Chart letter 180 (1936) covers the aids to navigation while chart letter 199 (1936) covers landmarks for the whole project.

There are two groups of piles in North Creek; one group at  $35^{\circ} 25.7'$ ,  $76^{\circ} 38.45'$ , another at  $35^{\circ} 35.7'$ ,  $76^{\circ} 38.25'$  not shown on this compilation because they have not been located by the survey for T 6413 and cannot be seen on the photographs in this office. They have been located on H 5918.

The control is adequate to support the estimate of accuracy of location given on page 2 of this report. This estimate is somewhat larger than the usual estimate on account of the trouble due to 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.

April 27, 1936.

*Leonard A. McGowan*  
*v B.G. Jones*

## REVIEW OF AIR PHOTO COMPILATION NO. T 5554

Chief of Party: S.B. Grenell

Compiled by: G.F. Lenoir, Jr.

Project: Inland Route North Carolina 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) ✓  
*Graphic control surveys T-6406 T-6413 None  
T-6343, T-6345. were made in this area.  
in 1934 and 1935.*
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. None*
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) ✓

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." M-87

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)  
*Submitted by Lt. J. A. Bond 1935*  
*No recoverable objects have been described and forwarded to this office*
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)  
*Submitted by Lt. J. A. Bond 1935*
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)  
*No bridges on this compilation over navigable waters*
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.

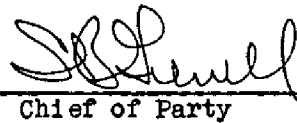
3. All station points are exactly marked by fine black dots. ✓
4. Closely spaced lines are drawn sharp and clear for printing. ✓
5. Topographic symbols for similar features are of uniform weight. ✓
6. All drawing has been retouched where partially rubbed off. ✓
7. Buildings are drawn with clear straight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

  
Chief of Party

19. Remarks after review in office:

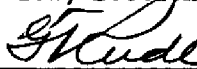
Reviewed in office by: *Leonard A. Mulsau* April 27, 1936.  
*B.G. Jones*

Examined and approved:

  
Chief, Section of Field Records

  
Acting Chief, Division of Charts

  
Chief, Section of Field Work

  
Chief, Division of Hydrography  
and Topography.