

5566

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Airphoto
Topographic
~~Hydrographic~~

Sheet No. 5566

State North Carolina

LOCALITY

Neuse River

Adams Creek

~~1936~~
Date of photos, Oct. 1934.

CHIEF OF PARTY

S. B. Grenell

U. S. GOVERNMENT PRINTING OFFICE: 1934

Applied to chart 833 Sept 18, 1936 RML.
Applied to chart 832 Jan. 21, 1937, RLF

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

AIRPHOTO
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 - 5566 **T5566**

REGISTER NO.

State North Carolina
General locality Neuse River
Locality Adams Creek
Scale 1 : 10,000 Date of survey Aerial Photographs
Fall of Oct., 1934
Vessel Airphoto Compilation Party # 18
Chief of party S. B. Grenell
Surveyed by Aerial Photographs - Army Air Corps.
Inked by James C. Tison, Jr.
Heights in feet above ----- to ground to tops of trees
Contour, Approximate contour, Form line interval ----- feet
Instructions dated December 14, 19 34
Remarks: -----

Scale of ^{***} Black and white line contact print
1: 9756

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. 5566

PHOTO NO. M79-72 TO PHOTO NO. M79-97

	BY	START	FINISH
ROUGH RADIAL PLOT	<u>F. B. Hickman</u>		<u>6/26/35</u>
SCALE FACTOR <u>1.025</u>	<u>F. B. Hickman</u>		<u>6/27/35</u>
SCALE FACTOR CHECKED	<u>S. S. Shnell</u>		<u>6/27/35</u>
PROJECTION	<u>J. C. Ligon, Jr.</u>	<u>11/30/35</u>	<u>11/30/35</u>
PROJECTION CHECKED	<u>S. S. Shnell</u>	<u>12/2/35</u>	<u>12/2/35</u>
CONTROL PLOTTED	<u>J. C. Ligon, Jr.</u>	<u>12/2/35</u>	<u>12/3/35</u>
CONTROL CHECKED	<u>S. S. Shnell</u>	<u>12/3/35</u>	<u>12/4/35</u>
TOPOGRAPHY TRANSFERRED	<u>None</u>		
TOPOGRAPHY CHECKED	<u>"</u>		
SMOOTH RADIAL LINE PLOT	<u>F. B. Hickman</u>	<u>7/6/35</u>	<u>7/9/35</u>
RADIAL LINE PLOT CHECKED	<u>S. S. Shnell</u>		
DETAIL INKED	<u>J. C. Ligon, Jr.</u>	<u>12/4/35</u>	<u>2/20/36</u>
AREA DETAIL INKED	<u>19.0</u>	sq. Statute Miles	
LENGTH OF SHORELINE OVER ²⁰⁰ 300 m.	<u>22.3</u>	Statute Miles	
LENGTH OF SHORELINE UNDER ²⁰⁰ 300 m.	<u>21.1</u>	Statute Miles	

GENERAL LOCATION EAST Coast - North Carolina

LOCATION Neuse River - Adams Creek

DATUM STATION Carraway 1935 Latitude 34°-55'-48.44" (1492.6m).
N. A. 1427 Longitude 76°-38'-29.82" (756.8m).
 (unadjusted)

REPORT OF COMPILATION:

REFERENCE:

In reviewing this compilation special reference should be made to the Special Report for Compilations 5550 to 5566 wherein general topographic features and compilation methods and difficulties for the project as a whole are discussed. *Filed as part of Report T 5550*

RADIAL LINE PLOT:

The standard radial line plot method was used in compiling this ~~sheet~~ ^{compilation}. Failure to recover control points along the south shore of Neuse River to eastward of the line of flight of the photographs made it impossible to establish radial points with any degree of accuracy in the north east corner of the ~~sheet~~ ^{compilation}. The radial plot apparently tended to swing around control points located in the mouth of Adams Creek, and the eastern limit of compilation at the north end of the sheet had to be moved in near the center line of the flight.

Scale differences in some of the prints caused difficulties which were overcome by using the methods previously resorted to in connection with other prints for this project. Print M79 - 82 was so badly distorted that it was entirely omitted from the radial plot.

All control stations on this compilation were held in making the radial plot.

There were no points common to adjacent flights and no adjoining compilations.

The scale factor for this compilation is 1.025.

ADJUSTMENT OF PHOTOGRAPHS:

Radial points were well selected and spaced. In areas where excessive tilt was encountered additional points were established by interlacing. No unusual difficulties in adjustment were encountered.

INTERPRETATION:

The photographs are clear, showing topographic detail well and sharply defined except on extremities of wing prints. The stereoscope was freely used in interpreting detail.

Standard topographic symbols were used to indicate topographic detail, except for cultivated areas, which are clearly outlined on the compilation by intricate systems of drainage ditches easily discernible on the photographs.

COMPARISONS WITH CONTEMPORARY SURVEYS:

There were no adjoining compilations to require checking of junctions.

Hydrographic signals for a hydrographic survey of Adams Creek by the party of J. A. Bond were spotted on the photographs by a field party and then located on this compilation. These signals and also compiled shoreline were then transferred to Hydrographic Sheets, and the sounding lines run were found to check the compiled shoreline.

This compilation was compared with U. S. C. & G. S. Chart #538 and the compiled shoreline detail was found to check the charted in general. Compiled road systems differ from the charted, however, and considerable changes are indicated.

At Lat. 34 - 56.3 N and Long. 76 - 42.0 W the head waters of a creek which apparently has never been charted show on the compilation.

There were no other charts or topographic sheets available with which to check the compilation further.

REPORT OF COMPILATION (CONTINUED):

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
(M79) 72 - 97	unknown.	Oct 24, 1934. (approx.)	No tide.

NAMES:

Names appearing on the overlay sheet for this compilation were taken from U. S. C. & G. S. Chart # 538. Local names in common use were not ascertained and investigated by the field inspection party due to lack of time.

Respectfully submitted:

James C. Tison, Jr.
James C. Tison, Jr.
Aid, Coast & Geodetic Survey.

Approved and forwarded:

S. B. Grenell
S. B. Grenell,
Jr. H. & G. E.,
Chief of Party.

GEOGRAPHIC NAMES

Survey No. 5566

GEOGRAPHIC NAMES										
Survey No. 5566										
Name on Survey	<div>On Chart No. On previous survey No. On U. S. quadrangle Maps From local information On local Maps P. O. Guide or Map Rand McNally Atlas U. S. Light List</div>									
	A	B	C	D	E	F	G	H	K	
✓ <u>Neuse River</u>	538									1
✓ <u>Godfrey Creek</u>	538									2
✓ <u>Delamar Creek</u>	538									3
✓ <u>Sandy Huss Creek</u>	538									4
✓ <u>Dumpling Creek</u>	538									5
✓ <u>Jonaquin Creek</u>	538									6
✓ <u>Cedar Creek</u>	538									7
✓ <u>Kellum Creek</u>	538									8
✓ <u>Adams Creek</u>	538									9
✓ <u>Jerry Bay</u>	538									10
✓ <u>Isaac Creek</u>	538									11
✓ <u>Back Creek</u>	538									12
✓ <u>Adams Creek Canal</u>										13
✓ <u>Cedar Point</u>	538									14
✓ <u>Kearney Creek</u>	538	T1052	P.R.H. 6/22/36							15
										16
		B. H. H. 2/24/36								17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

RIVIEW OF AIR PHOTO COMPILATION NO. T-5566 (1934)

Scale 1:20,000

Comparison with Previous Topographic Surveys

T-1052 (1867), 1:20,000

Survey T-1052 shows a portion of the Neuse River and all of Adams Creek. No large changes of shoreline have occurred since the time of survey T-1052. The buildings along Back Creek and Isaac Creek have been abandoned. T-1052 is superseded by this compilation over the common area.

T-3824 (1920), 1:20,000

Survey T-3824 covers Adams Creek and Oriental Harbor. The piles shown in Adams Creek at $34^{\circ} 57'.2 / 76^{\circ} 40'.7$ cannot be seen on the photos and consequently they are not shown on the compilation. Chart letter 98 (1936) verifies their existence, however.

Some of the buildings shown on T-3824 along the shores of Adams Creek have been destroyed or removed. The compilation shows all buildings along these shores.

The U. S. Engineers' and the "C. and G. S." triangulation stations "A" to "Z" and "Gamma U.S.E." shown on T-3824 all are the positions of 2" iron pipes set in the ground. These stations, established in 1913, have not been recovered by the field inspection parties working in this area. They are not shown on this compilation. T-3824 is superseded by this compilation over the common area.

There are no graphic control surveys which cover this area.

Comparison with New Hydrographic Surveys

H-5905 (1935), 1:10,000

There are no conflicts between the soundings of H-5905 and the shoreline of this compilation. The stakes, sunken logs, sunken pile, and the fences shown on H-5905 will not appear on this compilation for they cannot be seen on the photos. For the same reason the wreck at $34^{\circ} 57'.4 / 76^{\circ} 40'.4$, the ballast dump and old boiler at $34^{\circ} 57'.1 / 76^{\circ} 40'.6$, the piles at $34^{\circ} 57'.2 / 76^{\circ} 40'.7$ shown on H-5905 will not appear on this compilation.

Comparison with the Charts

Charts No. 538, 1231, 3253

The report for this compilation does not mention landmarks. From an inspection of the photographs no prominent objects are located in this area.

According to information furnished by the U. S. Lighthouse Service (Chart letter 180, 1936), the numbers but not the positions of lights No. 2, 3, 5, 7, 5, and 7 in Adams Creek have been changed since the positions of these lights were established by triangulation. The new numbers have been reported in the Notice to Mariners, Jan. 1936 but the new numbers are not shown in the Light List for 1936.

The piles shown on these charts at $34^{\circ} 57'.2 / 76^{\circ} 40'.7$ have not been located on this compilation. See Chart letter 98 (1936).

Many of the buildings and roads shown on these charts are obsolete. This compilation shows all roads and buildings in this area in existence at the time the photos were taken.

Refer to pages 5 to 8 a, 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.

The control of this compilation is adequate in order to support the estimate of accuracy of 10 to 20 meters given on page 2 of the preceding report.

July 9, 1936.

Leland A. McKane

V. B. Jones

REVIEW OF AIR PHOTO COMPILATION NO. *T-5566*Chief of Party: *S. B. Grenell*Compiled by: *J. C. Tison, Jr.*Project: *Party # 18*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)~~
See data furnished by survey of J. A. Bond, 1935.
What survey?
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) ✓
No graphic control surveys 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) ✓
High water line along sand beach was obtained from the photos. There are no notes on the field photos concerning the position of the H.W.L. in these sand beach areas.

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) ✓

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 in this area ✓

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)
See reports of J.A. Bond, 1935. in the form of chart letter 180 (1936). This give position for non-floating aids to navigation, only.

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 in this area.

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) *None* ✓

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:


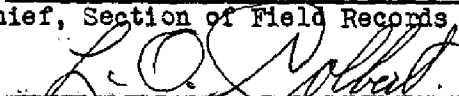
18. Examined and approved; *February 27, 1936*


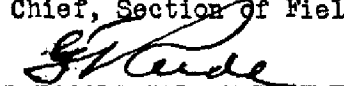

Chief of Party

19. Remarks after review in office:

Reviewed in office by: *Leonard A. McSauer July 9, 1936.*
V B. G. Jones

Examined and approved:


Chief, Section of Field Records

Chief, Division of Charts


Chief, Section of Field Work

Chief, Division of Hydrography
and Topography.