

U.S. GOVERNMENT PRINTING OFFICE: 1934

U.S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

MAR 2 1936

Acs. No.

Form **504** Rev. Dec. 1933 DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR DESCRIPTIVE REPORT Airphoto Topographic Sheet No. 5569 x Higdicographics S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES APR 25 1936 Acc. No. State North Carolina LOCALITY Alligator River Albemarle Sound CHIEF OF PARTY S. B. Grenell

Official to chart 891- nov. 4, 1936 THE

add not on page one. In this one the mean high both line has been left off where in the cypiers overs where the fold implifier whowed the ground to be flooded as as verend in this office the completion well and the toles were whom as about # with the line but the hood not been impeted

and line vas vemoved

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. 5569

REGISTER NO. 5569

State North Carolina
General locality Albemarie Sound Alligator River
Locality Alligator River (Lower Parl) Whipping Creek **Scale Factor 1.02 Scale 1:20,000 Date of survey Photographs, fall 1934.
Vessel # 18
Chief of party S. B. Grenell
Surveyed by Aerial photographs
Inked by S. B. Grenell
Heights in feet above xxx to ground to tops of trees
Contour, Approximate contour, Form line interval x x feet
Instructions dated December 14 , 19 34
Remarks:
* Blue Print on Leal 1:19608

NOTES ON COMPLEATION

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. 55	69	:	
M-83	PHOTO NO. 36 1	O PHOTO NO. 43	<u>5</u>	
11-00	80 ^{BA}	START 90	FINISH	
ROUGH RADIAL PLOT_	W. R. Taylor	7-16-35	7-17-35	
SCALE FACTOR(1.02_	W. R. Taylor & S.	B. Grenell	n .	
SCALE FACTOR CHECK	ED S. B. Grenell.		ti .	
PROJECTION J. Ta	ssopoulos	7-17-35	7-17-35	
PROJECTION CHECKED	J. C. Tison, Jr.		7-24-35	
CONTROL PLOTTED	J. C. Tison, Jr.	·	7-25-35	
CONTROL CHECKED_	F. B. Hickman		7-25-35	
TOPOGRAPHY TRANSFE TOPOGRAPHY CHECKED	RRED No field topo			٠
SMOOTH RADIAL LINE	F. B. Hickma PLOT J. C. Tison,	n 7-25-39 Jr.		
RADIAL LINE PLOT C	HECKED S. B. Grene	11	10-14-35	
DETAIL INKED_	S. B. Grenel	1	11-27-35	
AREA DETAIL INKED	60.0	sq. Statute Mi	les	
LENGTH OF SHORELIN	ie over 3 00 m. <u>24.</u> 5	Sta	tute Miles	
LENGTH OF SHORELIN	ie under 3 00 m. <u>12.</u> 9	StaSta	tute Miles	,
GENERAL LOCATION	Albemarle Soun	d		
LOCATION	Alligator Rive	r (lower po	rt.).	
****	OVE 2 1935 1: N.A. 1927	Latitude 35 . Longitude 76 .	- 38 - 51.866 - 02 04.338	(15984) (1087)

Refer to pages 5 to 8a, report for compilation 7-5550 for a Refer to pages 5 to 8a, report for compilation 7-5550 for a discussion of camera errors in this area and the discussion more than the usual amount of ground need for more than the usual amount of ground control.

Fau. 4/8/36.

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REPORT OF COMPILATION:

The radial plot of this compilation was begun by F. B. Hickman, Surveyor, and later completed by J. C. Tison, Jr., Aid. The detail was inked by the writer after the party complement was reduced to two officers and one draftsman. Due to the lack of funds, this work was carried on as rapidly as possible and large, heavily wooded areas have been left blank and indicated by notes only on the overlay sheet to save time in inking. In reviewing this compilation, reference should be made to the General Report for Compilations 5567 to 5573, which is attached to the Desc. Report T-5567.

RADIAL LINE PLOT:

(See opposite page.)

The plot was run through this compilation with no more than the usual difficulties encountered on all plotd on this project. These difficulties are caused bu photographic errors as explained in the report mentioned above. The control was adequate for holding the radial plot of all definite detail as compiled and the standard of accuracu is believed to be within the required limits.

The eastern section of this sheet is covered by compilation 5573, scale 1:10,000. Numerous control stations. fell within the limits of compilation 5573 and were plotted on this compilation in wash ink and used to hold the radial plot. These stations are not shown on but were later removed and shown on compilation 5573 Only. but were later removed and shown on compilation 5573 Only.

After the radial plot for this compilation was completed, various radial points were transferred to the 1;10,000 scale photographs of compilation 5573 and their positions transferred by the enlarging projector to the 1:10,000 projection. As the radial plot on 5573 progressed it was noted that these common points checked in exactly - with a few exceptions obviously due to transferring indefinite points from the 1:20,000 to the 1:10,000 scale photographs. This excellent agreement was a check on the accuracy of both radial plots.

ADJUSTMENT OF PHOTOGRAPHS:

With the exception of the detail in the northwest corner of the compilation, most of the definite detail such as shoreline, roads, ditches, etc. fell on or close to the "B" prints and was clear and well defined. The cultivated area in the north west corner, while quite far out on the wings, was covered by two or three untilted and quite clear prints so it was not difficult to ink in this detail to perfect junctions with adjoining compilations.

INTERPRETATION OF DETAIL:

A greater portion of the "shoreline" of the Alligator River is shown by a broken, wavy line to indicate the indefinite nature of this feature which is not an actual fastland shoreline but rather a wall of dense cypress growing in the shallow water which extends for an indefinite distance back into the dense swamp.

Except where cleared for cultivation, all forested

areas are shown by a dense, mixed growth or by the conventional cypress swamp symbol. This symbol has been carried back from the water areas only for a short distance with the remainder of the photographed area left blank and noted on the overlay sheet as to the nature of the vegetation. These blank areas are actually so densely wooded as to appear on the photographs as a closely woven carpet of vegetation even when examined under a magnifying glass and the stereoscope.

The area covered by the photographs has been indicated in red on the overlay sheet to show how far the unbroken swamp is known to extend; although no symbol has been inked in to denote the extent of this feature.

Due to the limited time allowed for field inspection of this area, the field inspection party was unable to visit any of the three lakes east of the Alligator River so no definite information is available as to the character of the lakes of the limiting width or depth of the passages leading to them. There is apparently no habitation on or around these lakes and no local names for them are known.

PLACE NAMES:

ALLIGATOR RIVER
POPLAR RIDGE POINT
WHIPPING CREEK
SWAN CREEK
GRAPEVINE BAY

GRAPEVINE LANDING RATTLESNAKE BAY Charted

18 19 11

Very well known local name. Local name.

Respectfully submitted,

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

	GEOGRAPHIC NAMES Survey No.F.5569.		, L. S.	C C C	S diadra	Se Constitution of the con	Or Oct Made	Caide of	Was Not of the State of the Sta	S. J.	, \$
	Name on Survey	A	Crost B	C), _k /k/	or nor	orion F	, ° ′ ′ ′ G	QUOTICO H	2, K	
	Alligator River Poplar Ridge Point Whipping Creek Swan Creek Grapevine Bay Grapevine Londing Rattlesnake Bay	123	,								1
	Poplar Ridge Point	/									3
Ò	Sunn Creek	123	,								4
	Grapevine Bay	1231									5
	Grapevine Landing	-	ļ. <u></u>		/						6
	Rattlesnake Bay										8
		N	la mes un	derlined i	red app	hav.or					9
		b	GRE	nu	n 3/21	/36					10
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REVIEW OF AIR PHOTO COMPILATION T 5569 (1934) Scale 1:20,000

Comparison with Graphic Control Surveys

T 6370a, T 6370b (1935), 1:10,000 - There are no discrepancies between T 6370a, T 6370b and this compilation. The foul line at Poplar Ridge Point and the stake at lat. 35°, 42°, long. 76° 03.2° have been transferred to the compilation. All details on T 6370a and T 6370b are shown on this compilation except non-recoverable plane table positions and the magnetic declination.

Comparison with Previous Topographic Surveys

T 285 (1849), 1:20,000. - The survey for T 285 covers the central part of Alligator River. Comparatively large changes of shoreline have taken place in the marsh areas at lat. 35° 44', long. 76° 02.5'. T 285 is superseded by this compilation over the common area.

T 3437 (1914), 1:20,000 - The wharf and fishing camp at lat. 35° 43.6', long. 76° 02.6' are gone. The position of the high water line around these islands has changed.

The road at Grapevine Landing, lat. 35°43', long. 76°03.7' has been abandoned. An examination of the photographs under the stereoscope shows a drainage ditch here. The compilation is adequate in order to supersede the position of T 3437 which it covers.

Comparison with Charts Nos. 1231, 3252

The report for this compilation does not mention landmarks. According to the reports for T 6370a, T 6370b, there are no landmarks in this area, except the aids to navigation.

The section of road at lat. 35° 43.8', long. 76° 03.8' has been abandoned.

The small object at lat. 35° 40.7', long. 76° 00.6' cannot be seen on the photographs. This is probably the stump which is shown on T 3437 (1914) and H 5914 (1935).

Comparison with New Hydrographic Surveys

H 5914 (1935). There are many stumps, trees, logs awash shown on H 5914 which do not appear on this compilation. They cannot be seen an the photographs.

The sounding records noted a line of piles near Poplar Ridge Point. These piles cannot be seen on the photographs.

There is a canal extending beyond the limits shown on this compilation at lat. 35° 43', long. 76° 08.3'. It runs in a northerly direction through the wooded area to the road at lat. 35° 43.8', long. 76° 08.4°. Through this wooded area it cannot be seen from the photographs and for this reason it is not shown there.

The report for this compilation does not mention the probable accuracy of location. A rough estimate of this error is from 0.5 to 1.0 mm. for intersected points and from 1.0 to 1.5 mm. for other points between intersections.

April 10, 1936.

Leonard a. McSauce

REVIEW OF AIR PHOTO COMPILATION NO. 7-5569

Chief of Party: S. J. GRENELL

compiled by: S.B. Grenell

Project: Party # 18

Instructions dated: /2-/4-34

- 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. Greend 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-6370 a and T-63706 (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. 23) 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.

 The contemporary field topo. Surveys

 Shoreline checked hydro. Survey, R.P. Eyman, 1935.
- 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 mangreve coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

 See descriptive report (e. cypress "shore line"

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 reeks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41) None
- 9. Reserve to bjects have been located and described on Form 584
 in accordance with circular 30, 1933, circular letter of March 5,
 1933, and circular 31, 1934, (Par. 29, 30, and 57)
 No recoverable objects found except road and
 ditch intersections etc. as shown. None
- 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. (Pary 16d, e; and 60)

 Lond marks (if any) furnished by R.P. Eyman 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. 16e)
- 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)

- No additional surveying is recommended at this time. 16.
- 17. Remarks:

Clan 30, 1936 Examined and approved; 18.

19. Remarks after review in office:

Leonard G. McSaure. april 10, 1936,

Examained and approved:

Chief, Division of Charts

Chief, Division of Hydrography and Topography.

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