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

DESCRIPTIVE REPORT

AIRPHOTOZ
Topographic } Sheet No. 5570.
~~Hydrographic~~

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

APR 25 1936

Acc. No. _____

State North Carolina

LOCALITY

~~East of~~ *Atbemarte Sound*

Alligator River (central part)

Milltail Creek

~~193 8~~
Date of photographs - Winter of 1935. ?

CHIEF OF PARTY

S. B. Grenell

Applied to chart 831 - Nov. 3, 1936. H.M.C.
Applied (in part) to chart correction 1231, Feb. 20, 1937. H.M.C.

Applied to chart 1228 - 8-1-49 E.C.H.

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. 5570

REGISTER NO. 5570

State North Carolina

General locality ~~East Coast Allensville Sound~~ Alligator River
Milltail Creek

Locality Alligator River (central part)

Scale Factor: 1.000 Photographs
Scale 1:20,000 Date of survey Fall of 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, 1934

Remarks:

Blueprint scale 1/20,000.

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>5570</u> | |
| M-83 | | 11 | 25 |
| M-83 | PHOTO NO. | <u>91</u> | TO PHOTO NO. <u>97</u> |
| M-84 | BY | <u>1</u> | START <u>13</u> FINISH |

ROUGH RADIAL PLOT F. B. Hickman 7-8-35 7-10-35

SCALE FACTOR (1.00) F. B. Hickman 7-10-35

SCALE FACTOR CHECKED S. B. Grenell 7-10-35

PROJECTION Projection Machine, Washington Office.

PROJECTION CHECKED J. C. Tison, Jr. 7-25-35

CONTROL PLOTTED S. B. Grenell 7-26-35

CONTROL CHECKED H. B. Riner 7-27-35

TOPOGRAPHY TRANSFERRED none

TOPOGRAPHY CHECKED "

SMOOTH RADIAL LINE PLOT F. B. Hickman 7-27-35
J. C. Tison, Jr. 8-28-35

RADIAL LINE PLOT CHECKED S. B. Grenell 10-04-35

DETAIL INKED J. C. Tison, Jr. 10-04-35 11-20-35

AREA DETAIL INKED 85.0 sq. Statute Miles

LENGTH OF SHORELINE OVER ²⁰⁰~~300~~ m. 44.0 Statute Miles

LENGTH OF SHORELINE UNDER ²⁰⁰~~300~~ m. 13.0 Statute Miles

GENERAL LOCATION North Carolina, *Albemarle Sound.*
~~East Coast.~~

LOCATION Alligator River *(central part.)*

DATUM STATION CYPRESS 1914 - 1935 Latitude 35 - 48 - 44.212 (1362.6 m.)
Longitude 75 - 59 - 38.228 (959.7 m.)

DATUM: N. AN 1927

* Refer to pages 5 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.

RAM.
4/11/36.

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 in later by Mr. Tison after the party complement was reduced to two officers and one draftsman. Due to lack of funds, this work was carried on as rapidly as possible and large, heavily wooded areas have been left blank and the nature of the vegetation indicated by note on the overlay sheet to save time in inking. All definite detail has been "fringed" by a narrow band of vegetation symbols to indicate the type of growth. In reviewing this compilation, special reference should be made to the General Report for Compilations 5567 to 5573 for information relative to the general topographic character of the country and the method of field inspection employed in this area. *The general report for this compilation is attached to the report T-5567.*

RADIAL LINE PLOT:

(See opposite page.)

The plot of this compilation was run through by two different persons as noted above but no unusual difficulties were experienced except the usual trouble with wing prints out in azimuth and scale. The control was adequate to hold the plot for all definite detail and the accuracy of the compilation is believed to be up to the standard for this project.

The ditch system in the cultivated area in the southwest corner of the compilation was quite far out on the wings but is believed to be accurate because of the strong radial plot in this section as explained in the Descriptive Report for compilation 5569 under "Radial Line Plot".

ADJUSTMENT OF PHOTOGRAPHS:

Most of the definite detail came from the center area of the photographs and the adjustment between radial points was not difficult. The cultivated area in the south-west corner of the compilation was quite far out on the wings but a few, clear, untilted prints were found covering this section and the detail was run in to perfect junctions with compilation 5569. The stream and lake system in the north-east corner of the compilation has been carried out to the ultimate limit of probable accuracy of the photographs. There was no control to hold the plot in this area but the points smoothed through very well and the inking was carried as far as possible to get the detail which has appeared on no charts or maps heretofore, to the best of my knowledge.

INTERPRETATION OF DETAIL:

The 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 fast-land shoreline but a wall of dense cypress growing in very shallow water, which extends for a great distance back into the swamp. The conventional cypress-swamp symbol has been used to denote this

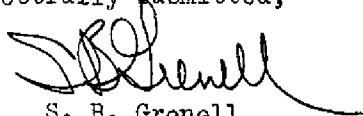
feature and has been carried back as far as could be determined by a careful, stereoscopic investigation of the prints. It is generally possible to distinguish cypress from oak and pine, but much of this swamp area is a varying mixture of cypress, gum, oak and pine with various deciduous undergrowth so definite limits for the extent of pure cypress swamp are often indeterminate.

It was impossible to penetrate this dense swamp country to get actual field notes on the vegetation and flooded condition of the land. The field inspection party made detailed notes of the appearance of the swamp along the waterways and the description of the general area is deduced from these notes.

The roads on this compilation have been shown as double, solid line which generally indicates first class or improved roads. These are poor dirt roads but the only kind found in this section of the country so they have been shown as "main roads",

Junctions with adjoining compilations are complete and accurate and the shoreline checked the hydrographic survey of R. P. Eymann, 1935 when transferred to the hydrographic sheets.

Respectfully submitted,



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

PLACE NAMES:

Charted Names:

ALLIGATOR RIVER ✓
SECOND CREEK ✓
GOOSE CREEK ✓
CATFISH POINT ✓
LYONS POINT ✓ (Known locally as "FIRST STRAIGHT POINT" only.)
THE FRYING PAN ✓ (The small charted section is known locally as
"BABBITT BAY". The large section shown on the
compilation is locally known as "THE FRYING PAN")
ORANGE POINT ✓ (Known locally as "CLABBER POINT" only.)
BAY POINT ✓
MILLTAIL CREEK ✓
CYPRESS POINT ✓
STUMPY POINT ✓

* * * * *

Well Established Local Names - Widely Known:

CLABBER POINT (See above)
BABBITT BAY (See above)
CRANES ISLAND
CRANES ISLAND POINT
FIRST STRAIGHT
BUFFALO CITY (Sawmill village)
FIRST STRAIGHT POINT (See note above)

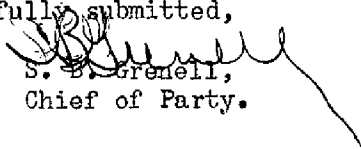
Local Names - Not So Widely Known:

CLABBER POINT SHORE
BUZZARD ROOST
SAWYER LAKE
SANDY RIDGE GUT
SANDY RIDGE FARM
RACCOON POINT
BOAT BAY
HALFWAY POINT
HEAD WIDE
THE LITTLE WIDE
LONG STRETCH
BEACH LAND LANDING

The variance between charted and local names was checked with old inhabitants and it is suggested that the names be changed on the charts to conform with local usage as the charted names are unknown locally.

The new names have been divided into two sections to denote the extent of their importance and usage.

Respectfully submitted,


S. B. Grenell,
Chief of Party.

Remarks

Decisions

| | | |
|----|---|------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | known locally as "First Straight Point" | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |
| 11 | | |
| 12 | Charted as Orange Pt. but not known locally as such. See D.R. | |
| 13 | CHARTED CHARTED AS "THE FRYING PAN" WHICH IS THE LARGER BAY TO NW. | |
| 14 | DELETE THE "S" | |
| 15 | SEE D.R. | |
| 16 | SEE D.R. | |
| 17 | SEE D.R. | |
| 18 | CHARTED AS LYONS PT. RETAINED | |
| 19 | QUESTIONABLE, not approved. | |
| 20 | * APPROVED FOR PHOTO COMPILATION ONLY. | |
| 21 | Do. | |
| 22 | Do | |
| 23 | Do. | |
| 24 | Do. | |
| 25 | Do | |
| 26 | Do | |
| 27 | Do. | GHE 6/7/37 |

GEOGRAPHIC NAMES

Survey No. 5570

| Name on Survey | Source of Name | | | | | | | | | | |
|---------------------------------|----------------|---|---|---|---|---|---|---|---|--|----|
| | A | B | C | D | E | F | G | H | K | | |
| ✓ Alligator River | 1231 | | | | | | | | | | 1 |
| ✓ Second Creek | 1228 | | | | | | | | | | 2 |
| ✓ Goose Creek | 1228 1231 | | | | | | | | | | 3 |
| ✓ Catfish Point | 1231 | | | | | | | | | | 4 |
| ✓ Lyons Point | 1231 | | | | | | | | | | 5 |
| ✓ The Frying Pan | 1231 | | | | | | | | | | 6 |
| Orange Point | 1231 | | | | | | | | | | 7 |
| ✓ Bay Point | 1228 | | | | | | | | | | 8 |
| ✓ Milltail Creek | 1228 | | | | | | | | | | 9 |
| ✓ Cypress Point | 1231 | | | | | | | | | | 10 |
| ✓ Stumpy Point | 1231 | | | | | | | | | | 11 |
| ✓ Clabber Point | | | | - | | | | | | | 12 |
| ✓ Babbitt Bay | | | | - | | | | | | | 13 |
| ✓ Crane's Island | | | | - | | | | | | | 14 |
| ✓ Crane's Island Point | | | | - | | | | | | | 15 |
| ✓ First Straight | | | | - | | | | | | | 16 |
| ✓ Buffalo City | | | | - | | ✓ | ✓ | | | | 17 |
| First Straight Point | | | | | | | | | | | 18 |
| Clabber Point Shore | | | | - | | | | | | | 19 |
| ✓ Buzzard Roost | * | * | * | * | * | * | * | | | | 20 |
| ✓ Sawyer Lake | * | | | - | | | | | | | 21 |
| ✓ Sandy Ridge Gut | * | | | - | | | | | | | 22 |
| Sandy Ridge Farm | * | | | - | | | | | | | 23 |
| ✓ Raccoon Point | * | | | - | | | | | | | 24 |
| ✓ Boat Bay | * | | | - | | | | | | | 25 |
| ✓ Halfway Point | * | | | - | | | | | | | 26 |
| Head Wide | * | | | - | | | | | | | 27 |

Names underlined in red approved
by *[Signature]* on 3/26/36

Remarks

Decisions

| | Remarks | Decisions |
|----|---------|---------------------|
| 1 | DO | g/fc 6/4/37 |
| 2 | DO | Probably waterway - |
| 3 | DO | GHE 6/4/37 |
| 4 | | |
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| 26 | | |
| 27 | | |

GEOGRAPHIC NAMES

Survey No.

| Name on Survey | | | | | | | | | | | |
|----------------------------|---|---|---|---|---|---|---|---|---|--|----|
| | A | B | C | D | E | F | G | H | K | | |
| The Little Wide | * | | | ✓ | | | | | | | 1 |
| → Long Stretch | * | | | ✓ | | | | | | | 2 |
| Beach Land Landing | * | | | ✓ | | | | | | | 3 |
| | | | | | | | | | | | 4 |
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James underlined in red by [unclear]
 on 3/26/36

REVIEW OF AIR PHOTO COMPILATION T 5570 (1935)
1:20,000 scale

Comparison with Graphic Control Surveys

T 6369b (1935), 1:20,000; T 6370a (1935), 1:10,000

There are no discrepancies between T 6369b, T 6370a and this compilation. All foul lines and stumps, the stakes in First Straight and Second Creek were transferred from T 6369b to this compilation in this office. All detail on T 6369b and T 6370a is shown on this compilation except non-recoverable plane table positions and the magnetic declinations.

Comparison with Previous Topographic Surveys

Comparison with the following old topographic surveys shows that this compilation is complete and adequate to supersede the areas of these surveys which it covers:

T 284 (1849), 1:20,000

T 285 (1849), 1:20,000

T 3436 (1914), 1:20,000

T 3437 (1914), 1:20,000.

The snags and stumps on T 3437 at lat. $35^{\circ} 45.5'$, long. $76^{\circ} 02.9'$ are not shown either on T 6369b, graphic control survey, or on H 5914 each of which covers this area. This detail does not appear on the photographs and has not been recovered by the field inspection party. Although not disproved by the photographs these snags and stumps are not shown on this compilation. T 3437 is superseded by this compilation over the area covered by the compilation.

Comparison with Charts Nos. 1228, 1231, 3252

The report for this compilation does not mention landmarks. According to the descriptive reports T 6369b and T 6370a the only landmarks are the lights in the channel of the Alligator River.

The numbers of these lights have been changed since their positions were determined by triangulation. According to information furnished by the U. S. Lighthouse Service the positions have not been changed. The new numbers are shown on the compilation in parenthesis after the station name. *The changes of 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 sections of railroad shown on the charts at lat. $35^{\circ} 45.6'$, long. $76^{\circ} 04.5'$, at lat. $35^{\circ} 44.7'$, long. $75^{\circ} 59'$ have been abandoned.

The detail shown on these charts at lat. $35^{\circ} 45.5'$, long. $76^{\circ} 02.9'$ is discussed above under comparison with T 3437.

The report for this compilation does not mention the probable accuracy of location. The center of the flights are very close to the shores of Alligator River where the error of plotting is estimated to be from 0.5 to 1.0 mm. for intersected points. There is no ground control in the interior areas where the error may be as much as 2.0 mm.

The detail in the areas east of long. $76^{\circ} 57'$ and west of $76^{\circ} 07'$ is shown on this compilation because no other known surveys of these areas are available. These areas were traced almost to the limits of the wing prints.

The tram road and logging camp building at lat. $35^{\circ} 50.3'$, long. $75^{\circ} 57.9'$ were built after the photographs were taken.

April 14, 1936.

Lionard A. McSauer

B.G. Jones

REVIEW OF AIR PHOTO COMPILATION NO. 5570

Chief of Party: S. B. Grenell

Compiled by: J. C. Tison, Jr.

Project: Party No. 18

Instructions dated: Dec. 14, 1936

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)
Beacons located by R. P. Eymann, 1935 - No other changes
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-6369b and T-6370a cover the area of this compilation
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)~~
No blue prints 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 ~~manrove~~ ^{Cypress} coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)
See descriptive report, page 1. for discussion of H.W.L. on Cypress coast;

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 584 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)~~
No recoverable objects accurately located ✓
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)~~ } *red lines out*
*No landmarks in this area -
The only landmarks are the beacons which are listed on Form 567 in the descriptive reports T-63696 and T-6370a.*
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 ✓
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;

Feb. 22, 1936

S. B. Sewell

Chief of Party

19. Remarks after review in office:

Reviewed in office by: *Ronald A. McNamee April 14, 1936.*

V. B. Jones

Examined and approved:

E. W. Green

Chief, Section of Field Records

L. O. Dolbit

Chief, Division of Charts

Fred. P. Peacock

Chief, Section of Field Work

Stude

Chief, Division of Hydrography
and Topography: