

5243

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

DESCRIPTIVE REPORT

Field 43

Air
Photo

Topographic }
Hydrographic } Sheet No. Reg. 5243

State North and South Carolina

LOCALITY

AT ANCHORAGE AT
INTRACOASTAL WATERWAY

BRANTLEY ISLAND TO LITTLE RIVER
~~SHALLOTTES INLET AND LITTLE RIVER~~ IN LET.

1934

CHIEF OF PARTY

E. H. KIRSCH

U. S. GOVERNMENT PRINTING OFFICE: 1934

5243

applied to chs 1236, 1237. Oct 1937 - PBC

PHOTOS NO.
479 through 505

DATE
Jan. 31, 1933

TIME
11:22 A.M.

PROJECTION BY

L. C. Ripley
L. C. Ripley

7-5-34

PROJECTION CHECKED BY

E. H. Kirsch
E. H. Kirsch

7-5-34

CONTROL PLOTTED BY

F. H. McBeth
F. H. McBeth

7-6-34

CONTROL CHECKED BY

A. E. Nowell
A. E. Nowell

7-6-34

CONTROL PLOTTED ON PHOTOS BY

J. F. Richardson
J. F. Richardson

6-6-34

CONTROL CHECKED ON PHOTOS BY

A. E. Nowell
A. E. Nowell

6-8-34

SMOOTH RADIAL PLOT BY

A. E. Nowell
A. E. Nowell

7-17-34

E. S. Ethridge
E. S. Ethridge

SMOOTH RADIAL PLOT CHECKED BY

E. J. Anderson
E. J. Anderson

7-18-34

SCALE PLOTTED BY

L. C. Lande
L. C. Lande

7-1-34

DETAIL INKED BY

A. E. Nowell
A. E. Nowell

8-31-34

E. J. Anderson
E. J. Anderson

AREA OF DETAIL INKED: 53.5 Square Statute Miles (Land Area)

LENGTH OF COASTLINE: 12.5 Statute Miles (More-than-2)

LENGTH OF SHORELINE: 9.2 Statute Miles (more than 200 meters from opposite shore)

LENGTH OF STREAMS: 48.3 Statute Miles (Rivers and Sloughs less than 200m wide)

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. 43
Reg. No. 5243
REGISTER NO.

State North Carolina and South Carolina

General locality Intracoastal Waterway

Locality Brantley Island to Little River Inlet.
~~Charlotte Inlet & Little River~~

Scale 20.704 Photographs - January 31, 1933
Date of ~~survey~~ Compilation - August 31, 1934, 19

Vessel Air Photo Compilation Party No. 21, Charleston, S. C.

Chief of party E. H. Kirsch, Lieut. (j.g.)

Surveyed by See data sheet in descriptive report.

Inked by A. E. Nowell & E. J. Anderson

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

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

Instructions dated November 10, 1933, 19

Remarks: None

GENERAL DESCRIPTION OF TOPOGRAPHY

The following notes are intended to supplement the General Field Inspection Report and were made by a field inspection party.

The area covered by this sheet is generally low with practically no relief except for a few sand dunes along the beach. These sand dunes are approximately 10 meters above mean sea level.

Bordering the Atlantic Ocean, there is a narrow strip of high sandy ground with a scattering of grass and bushes on it. The high ground line on the land side has been indicated by a thin line where it could be definitely traced from the photographs and by the sand symbol where it was not definite.

Between the above mentioned strip of high sandy ground, or dune area, and the intracoastal Waterway (canal) the area consists mainly of low marshy ground cut up by numerous creeks, sloughs and gullies.

The shoreline of the three inlet creeks has been traced as far inland as the clearness of photographs would allow, the other water area, has been indicated by breaking the marsh line.

The spoil bank resulting from dredging of the canal is on the South side of same and consist of a series of low sand mounds or craters, the center being depressed and filled with water at high tide. In most cases grass is growing on the mounds. No attempt has been made to show these depressions in the spoil bank mounds, since same are too small to be shown at the scale of compilation. The mounds project above high water a maximum of approximately one meter. The area between these mounds being sandy and wet at low water, have been indicated with scattered sand symbol.

The other portion of the compilation consists mainly of woods of pine, oak, and brush, with scattered cultivated fields. It will be noted that in this area are sections shown by short broken lines with tree or brush symbol between the breaks in the line. This is the method we have used to indicate areas locally known as bays. Bays are swampy during a heavy rainy season.

GENERAL INFORMATION

Statistics:

Area of detail inked: 53.5 square Statute Miles (land area); Length of Coastline: 12.5 Statute Miles: Length of Shoreline: 9.2 statute miles (200 meters or more wide): Length of streams: 48.3 statute miles (Rivers and sloughs less than 200 meters wide).

General ^{Report.} Reoprt:

The general topographic report is given under "General

Description of Topography".

The "B" prints of the pictures, being clear and good scale, were used exclusively for tracing of detail along the Intracoastal Waterway and laying in the waterway.

On the "B" print of picture 484 and 485 there is a road that appears to run through a house which is on the North side of the Intracoastal Waterway. The house was erected after the road on the South side of the Intracoastal waterway was abandoned. This detail is shown in the compilation between Lat. $33^{\circ} 54' \frac{3}{4}$ and $33^{\circ} 54' \frac{4}{4}$ and Long. $78^{\circ} 26' - 78^{\circ} 27'$.

Photograph 484 was not used in making the radial plot, due to excessive tilt.

The boundry or sides of the Intracoastal Waterway is shown by a solid line where there is marsh on the edge and by a broken line elsewhere.

Field inspection shows that the small dock on "B" print of photo 498 has been destroyed; therefore it does not appear in the compilation.

PHOTOGRAPHS:

All photographs were taken by the U. S. Army Air Corps' 5-lens Camera.

Photo 479 through 505 were made on January 31, 1933 at 11:22 A.M., eleven minutes before high tide.

CONTROL

Sources:

Triangulation by Lt. K. G. Crosby - 1934 and Lt. C. D. Meaney - 1932. Control has been adjusted to 1927 datum.

Errors:

No errors of importance were discovered in the projection or radial plot.

Discrepancies:

No control stations established by other organizations were used in the compilation of this sheet.

COMPILATION

Method

The standard radial line method was used in making the plot.

Adjustment of Plot:

No difficulty was encountered in compiling this sheet.

Interpretation:

The usual graphic symbols were used as approved by the board of Surveys and Maps (1932) except as mentioned above for swampy areas.

There are numerous drainage ditches through the cultivated fields.

Information from other sources:

No information from other sources was used in compiling this sheet, except graphic control surveys Reg No. T-6212 & T-6213 (a) and (b)

Conflicting Names:

There are no conflicting names:

Comparison with other Surveys:

No difficulty was experienced in making a junction with Sheet No. 5242 on the East, or sheet No. 5244 on the West.

There are no adjoining sheets on the North or South.

Landmarks:

A list of landmarks will be furnished by Lt. B. H. Rigg, Chief of Party, 1934, on aluminum control sheets No. AG, AH, and AI. Register Nos. T-6212 b. T-6213 (a) and (b).

RECOMMENDATION FOR FURTHER SURVEYS

This compilation is believed to have a probable error of not more than .3mm in well defined detail of importance for charting, and not more than 6mm for other detail.

To the best of my knowledge this sheet is complete in all detail of importance for charting and no additional surveys are required.

Assisted by:

E. H. Kirsch
E. H. Kirsch,
Chief of Party.

Submitted by:

A. E. Nowell
A. E. Nowell.

GEOGRAPHIC NAMES

Date. Feb 28, 1935.

Survey No. T-5243

Chart No. 1236, 3254.

Diagram No. 1236

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>Tubbs Inlet</u>	same Ch. 1236			✓
✓	<u>Mad Inlet</u>	do			✓
✓	<u>Little River Inlet</u>	do			✓
✓	<u>Waite Island</u>	do			✓
✓	<u>Dunn Sound</u>	do	limited applic. from p. 1442 using Acetone		✓
✓	<u>Little River Neck</u>	do			✓
✓	<u>Colkins Neck</u>	do			✓
✓	<u>Seaside</u>	do			✓
✓	<u>Little River</u> (-creek)	do			✓
✓	<u>Bird Island</u>	do			✓
✓	<u>Mad Inlet Creek</u>	do	U.S. & M. = Dead Backwater		✓
✓	<u>Bald Beach</u>	do			✓
✓	<u>Saucepan Creek</u>	do			✓
✓	<u>Dunn Sound</u> (listed above)	do			✓
✓	<u>Brantley Island</u>	do			✓
✓	<u>Gause Landing</u>				✓
✓	<u>Little River</u> (town)				✓
✓	<u>Galabask + Creek</u>				✓
	<u>Clayton Creek</u>			on sheet L.H. (12/42)	✓

APPROVED NAMES
UNDERLINED IN RED
H. L. Flemer

REVIEW OF AIR PHOTO COMPILATION NO. T-5243.

Projection:

The projection of this compilation was checked and found to be satisfactory.

Comparison with Charts 1236 and 3254:

(a) Day beacons No. 2, 4, 6, 8, 10, ~~12~~ 14, 16, 18, 20, 22, and 24 which appear on the compilation in the channel of Little River are not shown on charts 3254 and 1236. These lights and beacons are new landmarks whose positions will be found in the descriptive reports for T-6212b, T-6213a, and T-6213b. *The Bl. and Wh. Beacon on the west end of Bird Island at the Little River Inlet cannot be identified on the photos of this area.*

Two wrecks which appear on the charts, one off Bald Beach Coast and the other on the beach northeast of Tubbs Inlet, will not appear on the compilation. They have not been recovered by the field parties in making the plane table surveys T-6212 and T-5213 of this area and do not show on the photographs.

Comparison with Previous Surveys:

(a) Old Topographic Surveys--T-725a (1858), T-725b (1859). These surveys cover the coast between longitude 78°24' and 78°32'.

T-1959 (1858). This covers Tubbs Inlet to Little River Inlet. T-1295b (1873) covers Bald Beach to the west end of the sheet. There is considerable change of shoreline at the inlets as well as elsewhere since the time of these surveys. T-725b, T-1295b are superseded in part for the area in common with the compilation. T-725b, T-1859 are superseded in full.

Comparison with Graphic Control Surveys:

(a) Graphic Control Surveys. T-6212b. This survey agrees satisfactorily with the compilation. The following recoverable topographic station has been transferred in the field office from T-6212b under which the description is filed:

U. S. E. Reference Mark No. 19.

T-6213a. This survey agrees satisfactorily with the compilation. The following recoverable topographic stations have been transferred in the field office from T-6213a under which the descriptions are filed:

N. W. Corner Old Hotel	
U. S. E. Reference Mark No. 21	
" " " " " "	22
" " " " " "	23
" " " " " "	24
" " " " " "	25
" " " " " "	26
" " " " " "	27

Note T6213 b was sent back to the field for additional work in Sept. 1936. The additional work is shown on T #6213b in brown and has been added to a supplemental of this compilation. All new detail on T6213 b is shown on the ~~comp~~ supplemental T5243 except Hw line at Little River Inlet. The small amount of Hw line ~~on~~ from the Sept. 1936 work on T6213 b shows large changes but is incomplete and not carried to a junction with previous work.

BG Jones 11/12/36

T-6213b. This survey agrees satisfactorily with the compilation. The following recoverable topographic stations have been transferred in the field office from T-6213b under which the descriptions are filed:

N. C. - S. C. State Line Mon. (at Boundary House).
N. C. - S. C. State Line Mon. (Urn.)
N. C. - S. C. State Line Mon. (Colkins Neck).
U. S. C. and G. S. and State Survey Station HO-85.
U. S. C. and G. S. and State Survey Station HO-86.
U. S. E. Reference Mark No. 28.
U. S. E. Reference Mark No. 29.
U. S. E. Reference Mark No. 30.
U. S. L. H. S. Tripod.
U. S. C. and G. S. and State Survey Station V-34.

All detail as shown on the plane table control surveys T-6212b, T-62130, and T-6213b is shown on this compilation except the magnetic declination and the non-recoverable plane table positions.

See also opposite page

Remarks:

The high ground lines which should be decidedly lighter than Mean High Water Line has been drawn much too heavily on this compilation and is confusing. Copy of this sheet with notes regarding the use of lighter lines has been forwarded to the field party. The broken line used to define the limits of cultivated fields has also been drawn too heavily on this sheet.

Leonard A. Mulsam
June 6, 1935.

B. G. Jones

Additional Work 1936

Graphic Control Surveys ~~T-6493 and T-6494~~ T-6495
executed in July 1936 have been examined
but show no corrections or additional
detail on this compilation.

12/16/36

B. G. Jones

REVIEW OF AIR PHOTO COMPILATION NO. *T-5243.*

Chief of Party: E. H. Kirseh

(A.E. Nowell
Compiled by: (E.J. Anderson)

Project: HT 162

Instructions dated: Nov. 10, 1933

- /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) ✓
- ~~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 and inlets transferred from graphic control surveys. T-6213(a), T-6213(b), T-6212 b. L.A.M.

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) ✓
Descriptions filed under graphic control surveys, Reg. Nos. T-6212, T-6213. (a) and (b)

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) ✓
Furnished with graphic control surveys, Reg. Nos. T-6212, T-6213. (a) and (b)

- ~~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.

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) ✓
No U.S.G.S. Quadrangles available; There are no new names in the area covered by this compilation.

13. The geographic datum of the compilation is *N.A. 1927* and the reference station is correctly noted. *Datum Sta. is adjusted.* ✓

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;

E. H. Kirsch
Chief of Party

19. Remarks after review in office:
see following page.

Reviewed in office by: Leonard A. Hulsman
B. G. Jones

Examined and approved:

C. K. Green
Chief, Section of Field Records
L. O. Lobnitz
Chief, Division of Charts

F. S. Borden
Chief, Section of Field Work
G. H. Hude
Chief, Division of Hydrography
and Topography.