

5244

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

# DESCRIPTIVE REPORT

Air  
Photo

Topographic  
Hydrographic

Field No. 44

Sheet No. Reg. No. 5244

State South Carolina

## LOCALITY

Intracoastal Waterway.

~~North of Myrtle Beach~~

Hog Inlet to Singleton Swash.

~~Singleton Swash to Hog Inlet~~

1934

CHIEF OF PARTY

E. H. Kirsch

U. S. GOVERNMENT PRINTING OFFICE: 1934

5244

—  
Appld to ch 1237 - Sept. 1927. P.R.B.

SHEET NO. 44  
REG. NO. 5244

PHOTOS NO.  
436 through 454

DATE  
August 5, 1934.

Time  
9:25 A.M.

Scale Fact.  $\frac{20,000}{20,555}$

PROJECTION BY

L. C. Ripley  
L. C. Ripley

10-23-34

PROJECTION CHECKED BY

E. H. Kirsch  
E. H. Kirsch

10-23-34

CONTROL PLOTTED BY

T. P. Mitchell  
T. P. Mitchell

10-24-34

CONTROL CHECKED BY

E. H. Kirsch  
E. H. Kirsch

10-25-34

CONTROL PLOTTED ON PHOTOS BY

W. W. King  
W. W. King

E. S. Ethridge  
E. S. Ethridge

J. F. Richardson  
J. F. Richardson

CONTROL CHECKED ON PHOTOS BY

E. J. Anderson  
E. J. Anderson

SMOOTH RADIAL PLOT BY

E. J. Anderson  
E. J. Anderson

11-9-34

SMOOTH RADIAL PLOT CHECKED BY

A. E. Nowell  
A. E. Nowell

11-12-34

SCALE PLOTTED BY

L. C. Lande  
L. C. Lande

10-18-34

DETAIL INKED BY

A. E. Nowell  
A. E. Nowell

12-27-34

AREA OF DETAIL INKED: 82.5 Square Statute Miles.

LENGTH OF COASTLINE: 13.5 Statute Miles.

LENGTH OF SHORELINE: None.

LENGTH OF STREAMS: 19.1 St. 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. 44

REGISTER NO. 5244

State South Carolina

General locality Intracoastal Waterway  
~~North of Myrtle Beach~~

Locality Hog Inlet to Singleton Swash  
~~Singleton Swash to Hog Inlet~~

Scale 1/20,000 Photographs - August 5, 1934  
~~1/20,000~~ Date of survey, 19

Compilation - Dec. 27, 1934  
Vessel Air Photo Compilation Party No. 21.

Chief of party E. H. Kirsch

Surveyed by See data sheet in descriptive report

Inked by A. E. Nowell

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

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

Instructions dated November 10, 1933, 19

Remarks: No.

## GENERAL INFORMATION

### Statistics:

Area of Detail Inked - 82.5 Square St. Miles.  
 Length of Coastline - 13.5 Statute Miles.  
 Length of Streams - 19.1 St. Mi. streams less than 200M wide.

### Report:

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 vary in height, 3 to 5 meters above mean high water.

There are numerous swampy areas shown in the compilation of this sheet. These areas are shown by short dashed or broken lines with trees, bush, or grass symbols between the breaks in the line. These areas are locally known as bays and are wet in the rainy season. They dry up completely during dry seasons.

The rest of the compilation consists mainly of wooded areas and a few cultivated fields. The trees, generally, are of pine and oak.

The intracoastal canal, as dug at the time these pictures were taken, ends between Long. 78° 41' and 78° 42'. The proposed course or right-of-way covered by this sheet has been indicated by leaving out all conflicting detail. The right-of-way was discernable from the pictures as it had been cleared.

The boundry or sides of the intracoastal waterway are shown by solid lines when the water does not overflow the sides at high tide and by a broken line elsewhere.

No beacons have been shown on this sheet; due to the fact that none have been placed since this section of the intracoastal waterway was dug.

This compilation shows a forestry telephone line which was taken from picture 443. The symbol as shown on page 105 (U. S. Coast and Geodetic Survey Topographic Manual, special publication No. 144 dated 1928), was used.

### Photographs:

These pictures were taken with a standard U. S. Army Air Corps 5-lens camera No. H U I 33 on August 5, 1934 at 9:25 A.M., 29 minutes before low tide, by the Aero Service Corp., of Philadelphia.

CONTROLSources:

Triangulation by Lt. K. G. Crosby 1934, Lt. C. D. Meaney 1933, and Lt. E. B. Roberts 1923.

The control has been adjusted to 1927 datum.

The triangulation which appears within the compilation of this sheet is as follows:

Station WARD, EVERT, FIRE, SANDY, PRICE, JESSIE, and BAY by Lt. K. G. Crosby in 1934. Stations BRYANT, and VAUGHT by C. D. Meaney 1932, and Stations NIXON, GROVE, and KETTLE by E. B. Roberts 1923.

Errors:

No errors were discovered in the control when making the radial plot.

Discrepancies:

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

COMPILATIONMethod:

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

Adjustment:

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 the swampy areas or bays. The Forestry telephone line was also mentioned above - This line is ~~not~~ indicated where it follows the road, <sup>and</sup> ~~not~~ is indicated on cover sheet.

Information from other Sources:

Hog Inlet was taken from A.C.S. "AI" Reg. No. T66213 b. by B. H. Rigg, 1934.

Conflicting Names:

There are no conflicting names .

COMPARISON WITH OTHER SURVEYSJunctions:

Satisfactory junctions were made with sheet 5243 on the east and 5245 on the west.

There are no adjoining sheets on the North or South.

Landmarks:

A list of landmarks and marked topographic stations will be furnished by Lt. B. H. Rigg on A.C. Sheet AI Reg. No. 7-62136 covering the north edge of the compilation. No other A.C. Sheets are available at this time.

A state fire tower was located from the pictures very near triangulation station FIRE. Its position as scaled from the compilation is: Lat. 33 50 1119.3m (729.3); Long. 78 42 253.1m (1309.7m). No prominent landmarks could be picked up along the coast from the photographs. Chart 1237 shows ~~topo station~~ <sup>landmark</sup> CHIMNEY at Lat. 33° 50.75' and Long. 78° 37.25'. A study of the photos reveals nothing in this vicinity. The above position falls about 400 meters outside the limit of topo sheet AI Reg. No. 7-62136. The topographer, Mr. Hall states he made a thorough search for this chimney but could find no sign of it. It is recommended that it be removed from the chart.

Bridges:

Bridge on Highway 117 across waterway near 33° 51' and Long. 78° 39' is a swing draw with 80' horizontal clearance. The vertical clearance when bridge is closed cannot be accurately determined at this time. It is 14 feet above U. S. Eng. datum for mean low water, however, the elevation of the mean low of the canal in reference to the U. S. Eng. datum has not been determined at present. It is thought to be between +1 and +2 feet.

RECOMMENDATION FOR FURTHER SURVEYS

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

To the best of my knowledge this sheet is complete and no additional surveys are required, except the incomplete waterway which will call for further survey.

Assisted by,

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

Submitted by,

A. E. Nowell.

*Discharged*

Survey No. T-5244

Date. Apr. 26, 1935. GEOGRAPHIC NAMES

Chart No. 1237, 3254

Diagram No. 1237.

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>Little River</u>	do Ch. 3254 1237			✓
	<u>Little River Neck</u>	3254 1237			✓
	<u>Hog Inlet</u>	3254 1237			✓
	<u>Cherry Grove Inlet</u>	3254 1237			✓
	<u>White Point Swash</u>	3254 1237			✓
	<u>Singleton Swash</u>	3254 1237			✓
	<u>Cherry Grove Beach</u>	3254 1237			✓
	<u>Futch Beach</u>	3254 1237			✓
	<u>Price Swamp</u>	3254 1237			✓
	<u>Groveyard Swamp</u>	3254 1237			✓
	<u>Cow Pen Swamp</u>	3254 1237			✓
	<u>Little River Swamp</u>	3254 1237			✓
	<u>Windy Hill</u>	3254 1237			✓
	<u>Dunn Sound</u>	1237	Limited application per 1942 U.S. GB decision		✓
	<u>Intracoastal Waterway</u>				✓

Names underlined in red approved  
by *C. E. Egan* on 1-30-36







REVIEW OF AIR PHOTO COMPILATION NO. T-5244.

1. Comparison with Graphic Control Survey T-6213b (1935) scale 1:10,000.

All detail on T-6213b within the area of this compilation is shown on the compilation except for temporary plane table stations. (See page 2 of the preceding report).

2. Comparison with Previous Topographic Surveys.

This compilation covers sections of T-1295a (1873); T-1295b (1873); and T-4196 (1925). A visual comparison shows the compilation to be complete in detail and adequate to supersede the sections of these previous surveys which it covers. The larger changes noted are in the outside highwater line particularly at the inlets.

3. Comparison with Charts 1237 and 3254.

The most important corrections and additions to the charts as a result of this survey consist of the intracoastal waterway changes along the outer shore line, and the deletion of the landmark mentioned on page 3 of the preceding report.

4. Remarks.

The projection of this compilation has been tested in the office and is satisfactory.

The numerous lines marking ditches and field boundaries are rather confusing. A legend has been added to the title for interpretation of this detail. The use of broken lines for field boundaries is not recommended, and the field compilation party is being instructed accordingly.

The highwater line along Little River at the eastern end of this compilation has been revised in this office to give a clearer interpretation.

*Leonard A. Nelson*  
*June 3, 1935.*

*B. J. Jones*

## REVIEW OF AIR PHOTO COMPILATION NO. 5244

Chief of Party: E. H. Kirsch

Compiled by: A.E. Nowell

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 submitted.*
- ✓ 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 at Hug Inlet transferred from T-5213 b. High water line in other places along sand beach obtained from field inspection photographs.*

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)~~  
*none submitted.*
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)
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)
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 of this area are available for geographic name comparison.*
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;

E. H. Kersch  
Chief of Party

19. Remarks after review in office:

See following page

Reviewed in office by: Leonard A. Kulsam June 3, 1935.  
✓ B. G. Jones

Examined and approved:

E. K. Green  
Chief, Section of Field Records

L. O. Polbit  
Chief, Division of Charts

T. B. Bordin  
Chief, Section of Field Work

J. H. Hude  
Chief, Division of Hydrography  
and Topography.