

# 5548

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

## DESCRIPTIVE REPORT

Field 76

Air  
Photo

Topographic

~~Hydrographic~~

Sheet No. Reg. 5548

State South Carolina

LOCALITY

WANDO RIVER

GUERIN CREEK

~~WAGNER CREEK TO ALBION CREEK~~

1934-5

CHIEF OF PARTY

E. H. Kirsch

U. S. GOVERNMENT PRINTING OFFICE: 1934

# 5548

Applied to chart 681 J.M.A. April 1937  
" " " 1239 J.M.A. April 1937  
" " " 1238 g.H.S. Oct. 18, 1937

Photos No.	Date	Time
1 - 19	August 2, 1934	8:20 A.M.
38 - 50	August 2, 1934	8:40 A.M.
$Sc. Fact. = \frac{10,000}{10,526}$		
PROJECTION BY	<u>L. C. Ripley</u> L. C. Ripley	12-28-34
PROJECTION CHECKED BY	<u>E. H. Kirsch</u> E. H. Kirsch	12-28-34
CONTROL PLOTTED ON PHOTOS BY	<u>J. F. Richardson</u> J. F. Richardson	
CONTROL CHECKED ON PHOTOS BY	<u>W. W. King</u> W. W. King	
SMOOTH RADIAL PLOT BY	<u>Trans.</u> M. D. Crook	1-13-35
RADIAL PLOT CHECKED BY	<u>E. J. Anderson</u> E. J. Anderson	1-14-35
SCALE PLOT BY	<u>T. P. Mitchell</u> T. P. Mitchell L. C. Lande	
TOPOGRAPHY TRANSFERRED BY	<u>Trans.</u> R. G. Hickson	
TOPOGRAPHY CHECKED BY	<u>P. W. Hund</u> P. W. Hund	
DETAIL INKED BY	<u>E. H. McBeth</u> E. H. McBeth	3-12-35

AREA OF DETAIL INKED: 22.3 Square Statute Miles.

LENGTH OF COAST LINE: No coastline.

LENGTH OF SHORE LINE:  $6 \frac{1}{3}$  Square Statute Miles (More than 200m wide).

LENGTH OF STREAMS: 24 Statute Miles (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. 76

REGISTER NO. 5548

**5548**

State South Carolina

General locality Wando River

Locality ~~Wando Creek to Wistar Creek~~ GUERIN CREEK

Scale 1/10,000 Photographs - 8-2-34  
~~1/10,000~~ Date of ~~survey~~ 19

Compilation - 3-12-35  
Vessel Air Photo Compilation Party No. 21

Chief of party E. H. Kirsch

Surveyed by See data sheet in descriptive report.

Inked by F. H. McBath

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 INFORMATION

### Statistics:

The land area covered by this sheet is 22.3 square statute miles. There are  $6 \frac{1}{3}$  statute miles of shoreline 200 or more meters from nearest opposite shore, and 24 statute miles of streams and sloughs less than 200 meters wide. There is no coastline on this sheet.

### General Report:

The area covered by this sheet is largely uninhabited wooded area except for the vicinity just south of the junction with sheet No. 5170. Low marsh covered tidal flats surround all streams that appear.

### Photographs:

The photographs used for this compilation were made by the Aero Service Corporation of Philadelphia and the usual 5-lens camera was used. Parts of two flights were used, running parallel in a northwest direction.

Photos No. 1 through 19 were taken on August 2, 1934 at 8:20 A.M., Low tide at Charleston was at 7:21 A.M. and its height on that date was 0.0.

Photos No. 38 through 50 were taken on August 2, 1934 at 8:40 A.M. This was 1:20 ~~minutes~~ *hours* after low tide given as 0.0.

### CONTROL

#### Sources:

Triangulation by Studds 1928 and traverse stations established by the State of South Carolina in 1934. The stations established by Studds are along the Wando River and have been adjusted to North American 1927 datum. The traverse stations consists of a line run up U. S. Highway No. 701, 2 of which fall on this sheet and are not adjusted to 1927 datum.

There are no Graphic Control sheets covering this area.

#### Errors:

No errors were found in the plotting of control.

#### Discrepancies:

A discrepancy of not more than 0.4 mm. was noticed in the positions of South Carolina traverse stations CT 179 and CT 180. The field inspected distances from the station to the road were not in

agreement with the compiled road and the positions of the stations on the celluloid. The road is correctly compiled by the radial points and cannot be changed.

### COMPILATION

#### Method:

The usual radial line method of plotting was followed.

#### Adjustment of Plot:

Over two separate areas, the field between Lat.  $32^{\circ} 53'$  Long  $79^{\circ} 48'$  and  $79^{\circ} 49'$ ; and at Lat.  $32^{\circ} 57'$  and Long.  $79^{\circ} 47'$ , the photos were badly tilted and although no adjustment of the plotted points were necessary and unusual amount of adjusting between points was needed.

On the North Bank of Guerin Creek and along Lachicotte Creek appears an area not covered by photos very true to scale, constant adjustment between points and the determination of additional points from intersections between radial points were necessary in this area. Photos 11 and 13 were those used.

The area along the Gregory Ferry Road in the vicinity of Philips School shows most distinctly on the 1 - 19 flight but is badly out of scale. Although not so clear, photos No. 42 has been used in detailing this area.

#### Interpretation:

A great deal of difficulty was found in the location of shoreline along Wando River. This stream traverses a flat country and surrounded as it is by tidal washed flats an exact determination of high water, even though taken as the water side of marshes, has been difficult. Opening in marshes and blending of marsh and mud covered flats have complicated the deliniation of the shore line.

The point formed by the junction of Wando River and Guerin Creek is a combination of small groups of grass between outside edges of such marsh patches and this and other muddy areas have been shown by the short broken marsh symbol. Other small areas indicated by scattered sand dots surrounded by marsh are small bare muddy areas.

The area about Philips Church offered difficulties of presentation. It is an area of small fenceless fields cultivated irregularly from time to time. It is difficult to say where such cultivated patches and uncultivated field join and such distinctions would probably be incorrect at any time other than that of the flight. In this vicinity only three clumps, hedges and other outstanding features have been shown.

#### Information from other Sources:

In addition to the names taken from USC & GS Chart No. 1239

names appearing on the Wando Quadrangle of the U.S. Geological Survey were used. This latter map is from a survey of 1918 and from it for purposes of identification are taken Christ Church Academy and Philips School.

Junctions:

Satisfactory junctions have been made with sheets 5393 and 5394 on the East, sheet No. 5549 on the South, sheet 5170 and 5174 on the West. There is no adjoining sheet on the North.

Landmarks:

The field inspection party has reported no prominent landmarks in this area.

RECOMMENDATION FOR FURTHER SURVEYS

The compilation of this sheet has a probable error of not more than .3 mm in well defined detail of importance for charting and not more than .6 mm for other data.

To the best of my knowledge this sheet is complete in all detail of importance for charting purposes within the accuracy stated above and no further surveys are required.

Remarks:

There are no bridges on this sheet of importance to navigation.

Assisted by:

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

Submitted by:

*F. H. McBeth*  
F. H. McBeth.

Survey No. T-5548

Date. June 10, 1935 GEOGRAPHIC NAMES

Chart No. 1239, 681

Diagram No. 1239

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>Wando River</u> ✓	same			
	<u>Darrell Creek</u> ✓	same			
	<u>Toomer Creek</u> ✓	same			
	<u>Wagner Creek</u> ✓	same			
	<u>Eat Island</u> ✓	same			
	<u>Paradise Island</u> ✓	same			
	<u>Alston Creek</u> ✓	same			
	<u>Lachicotte Creek</u> ✓	same			
	<u>Guerin Creek</u> ✓	same			
	<u>Old House Creek</u> ✓	same			
	<u>Fogarty Creek</u> ✓	same			
	<u>Guerin Bridge</u>	same			
	<u>Mt Pleasant Road</u>	_____		✓	
	<u>Gregory Ferry Road</u>	_____		✓	
	<u><del>Hotback Creek</del></u>	corrected same	<u>Harlbeck Creek</u> (DGN)	KTA	
Names underlined in red are approved					
second check 9/20/35					
K.T.A.					



Review of Air Photo Compilation No. T-5548

*1/10,000 scale.*

Comparison with Other Surveys.

There are no graphic control surveys nor previous topographic surveys covering this area.

H-4906 (1928). This is a hydrographic survey on 1:5000 scale covering the Wando River from longitude 79° 49' to Toomer Creek and Guerin Creek in its entirety. The shoreline shown on H-4906 was surveyed by the hydrographic party. This shoreline does not agree with the shoreline of the compilation, except in a general way. The fine detail, such as small marsh islands and irregularities in the shoreline are not shown on H-4906. The compilation supersedes the shoreline shown on H-4906 over the common area.

Comparison with the Charts 681 and 1239.

There are three sections of roads in the vicinity of Lachicotte Creek which no longer exist as passable roads. They are not shown on the compilation. Lachicotte Landing has been abandoned and the name is no longer retained. Additions and corrections to shoreline detail as a result of this survey are discussed in preceeding paragraphs.

*Leonard A. McGann*  
Leonard A. McGann  
June 10, 1935.

*B. J. Jones*

REVIEW OF AIR PHOTO COMPILATION NO. *T-5548*.

Chief of Party: E. H. Kirsch

Compiled by: F. H. McBeth

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)  
*none*
- ✓ 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*
- ✓ 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)

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 established.*
  
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)~~  
*No prominent landmarks in this area.*
  
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)  
*Wando Quadrangle used in making 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. Knack.

Chief of Party

19. Remarks after review in office:

Reviewed in office by: Lemard A. Hubbs. June 10, 1925.  
B. J. Jones

Examined and approved:

C. H. Green.

Chief, Section of Field Records

L. O. Whit.

Chief, Division of Charts

T. B. Bodin

Chief, Section of Field Work

G. H. Hude

Chief, Division of Hydrography  
and Topography.