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U. S. COAST & GEODETIC SURVEY LIBRARY ( ) ARCHIVES

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Form 504 Ed. June, 1928	
DEPARTMENT OF COMMERCE	· · ·
U. S. COAST AND GEODETIC SURVEY	,
R. S. Patton, Director	
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DESCRIPTIVE REPORT	
Topographic   Field No. 12.	:
Topographic Sheet No. Reg. No. 5164	
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CHIEF OF PARTY	] :
E. H. Kirsch	<b>!</b>

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#### JOB SHEET

TO

#### ACCOMPANY SHEET NO. 12 REG. NO. 5164

Jan. 3, 1934 PROJECTION BY Jan. 4, 1934 PROJECTION CHECKED BY Jan. 9, 1934 Jan. 9, 1934 TRIANGULATION CHECKED BY TRIANGULATION PLOTTED ON PHOTOS BY TRIANGULATION CHECKED ON PHOTOS BY Dec. 27, 1933 SCALE PLOT BY Jan. 24, 1934 RADIAL PLOT BY Started: DETAIL BY Jan. 25, 1934 Finished: Mar. 1, 1934.

PHOTOS NOS.
M93 through M100 - 807M-8

DATED

TME

November 25, 1933

1:05 PM

AMA DETAIL INKEE: 15.746 Square Statute Miles (Land Area)

LENGTH OF SHORE LIME: 12 Statute miles (More than 200 meters from nearest shore)

LENGTH OF STREAMS: 26 Statute miles of rivers and sloughs less than 200 meters wide.

LENGTH OF COASTLINE: None

AREA DETAIL INKED: (Shoals in water area) None.

## 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. 12	1239-2
REGISTER NO. 5164	5164

State South Carolina
Stone nive
General locality West of Charleston Harbor
General locality West of Unarios and Harrios Pt. FAST of
Locality Stone River to Rantowles Creek to November 25, 1933
Scale 1:10,000 Date of survey 1:05 PM 19 tide
Vessel Air Photo Party No. 21.
Chief of party E. H. Kirsch
Surveyed by Army Air Corp.
Inked by A. E. Nowell
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated November 10, 1933 , 19
Remarks: Single lens pictures No. M93 - 807-M-8 through
MOO - 807 - M - 8

#### GENERAL INFORMATION

#### Statistics:

The area covered by this sheet is 15.746 square statute miles. There are 12 statute miles of shoreline as measured along streams the width of which is more than 200 meters wide as measured from nearest opposite shoreline. There are 26 statute miles of rivers and sloughs (less than 200 meters wide) shown on this sheet.

#### General Reports:

The area covered by this sheet consists of low marsh land, cultivated, uncultivated, and wooded lands.

The marsh area shown north of the Stono River between Long. 80°03' and 80°06' has been turned over or dug up in mining for phosphate rock.

#### Photo Numbers;

The flight covering this area includes photos No. M-93 through M-100 - 807M-8. The pictures were taken on November 25, 1933 at 1:05 P.M., I hour and 48 minutes before high tide.

#### CONTROL

#### Sources:

Triangulation by G. D. Cowie and R. L. Shoppe - 1933.

Aluminum control sheets"F" Reg. No. 6072., "I" Reg. No. 7-6056, by Lt. B. H. Rigg, Chief of Party, 1933-34.

No control from other sources was used. U.S.E.D. stations were tied in by Mr. G. D. Cowie.

Control has been field reduced to 1927 N. A. datum. Datum Station Bradley is unadjusted. Lam. Errors:

Intersection station 81 WINDMILL and main scheme station CHUCK failed to fit into the plot by 6 to 8 meters. There are many tree shadows in the photo around these stations and it is felt that these stations were incorrectly spotted on the photo. 81 WINDMILL was located by three cuts with good intersections.

Intersection station 82 NORTH GABLE OF HOUSE is not shown on the sheet, as Mr. W. N. Martin reports this building has been torn down.

#### COMPILATION

#### Method:

The standard radial line method which is described in 1933 U.S.C. & G.S. notes for compilation of planimetric line maps from 5-lens aerial photographs was used for the compilation of this sheet.

#### Adjustments of Plot:

No unusual adjustment was necessary.

#### Interpretation:

No difficulty was experienced in interpreting the pictures.

#### Information from other Sources:

Aluminum control sheets, "F" Reg. No. 7-6072, and "I" Reg. No. 7-605; by Lt. B. H. Rigg, Chief of Party, 1933-34.

#### Conflicting Names:

No conflicting names were recorded by the field inspection party. One new name, River Road, has been submitted.

#### COMPARISON WITH OTHER SURVEYS

#### Junctions:

Junction with sheet No. 13, Reg. No. 5165 on the West is satisfactory.

Junction with Sheet Nos. 27 Reg. No. 5179 and 30, Reg. No. 5182 on the East is satisfactory.

Sheet No. 1, Reg. No. 5153 on the Bouth .

Sheet No. 5, Reg. No. 5157 on the North.

#### Landmarks:

Landmarks for charts and a list of marked stations are being submitted with aluminum control sheets "F" Reg. No. 7.607; and "I" Reg. No. 7.607; by Lt. B. H. Rigg, Chief of Party, 1933-34.

#### RECOMMENDATIONS FOR FURTHER SURVEYS

It is believed that the compilation has a probable error of not more than 3 meters in position of well defined detail of importance for charting and of not more than 6 meters for other data. See below

It is believed that the compilation is complete and reliable and that no further examination of this area is necessary.

Assisted by:

Chief of Party.

Submitted by:

\* The volve of 3 to 6 meters given above · is pulally a lette high airs is better respressed as follows: "an occurring of doration of 3 to 4 meters for intervented juints and 3 to 8 meters for other delail B.g. Jones

Lee chart letter 402-1934 for landmarks

#### BRIDGE NOTES:

#### TOPO SHEET 1

1st S.A.L. Railroad Bridge - Stono River- single trackswing type. Horizontal clearance between fenders- East channel 65.6'. West channel 65.9'. Vertical clearance -Bridge Closed 6.3' at Mean High Water. USE. gives minimum clearance = 13.5 ft above high mater.

Johns Island Highway Bridge - Swing type 14! Roadway.

Horizontal clearance between fenders North Channel 55.8!.

South Channel 56.7!. Vertical clearance - Bridge closed

7.3! at Mean High Water. There is no bridge listed in

the USE. List of Bridges." which coincides with its

Position on this Compilation. Lan.

Lam

### REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. 7- 5/64.

Title (Par. 56) Stono River  $\frac{1}{2}$  mile W. of Buzzardroost Pt. to Rantowles Creek.

Chief of Party E. H. Kirsch Compiled by A. E. Nowell

Project F. P. -13- S.C. 1933-35 Instructions dated November 10, 1933
Air Photo Compilation Party No. 21.

- 1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 8; and 16, a, b, c, d, e, g and i.)
- 2. The character and scope of the compilation satisfy the instructions and the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
- 3. The control and adjustment of the radial plot were adequate.
  (Par. 12, 29.)
- 4. There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.)

  No information taken from outside sources.
- 5. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- 6. The representation of low water lines, reefs, noral reefs and reals, and legends pertaining to them is satisfactory. (Par. 36. 37, 38, 39, 40, 41.)
- 7. Important details shown on previous surveys and on the chart have been compared with this sheet and a statement has been entered in the report regarding the removal from the chart or change in position of important detail such as rocks, lights, beacons, prominent objects, bridges, docks, and structures along the water front.
- 8. The span, draw and clearance of bridges are shown. (Par. 16c.)
- 9. The data furnished by the Field Inspection is adequate.

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

- The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
- The descriptive report also contains all additional information required in photo topography as prescribed in the instructions and in the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs". .
- The descriptions of recoverable stations and references to shore line were accomplished on Form 524, and scaling of positions checked. . (Par. 29, 30 and 57.) Submitted with A.C.S. Sheets.

A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.) Submitted with A.C.S. Sheets.

- The geographic datum of the sheet is N. A. 1927 and 14. the reference station is correctly noted. (Par. 34.)
  Ref. Station is unddjusted.
- Junctions with contemporary surveys are adequate. 15.
- 16. Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.)
- The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)
- No additional surveying is recommended.

Remarks: 19.

See Tollowing pages.

Examined and approved:

Chief of Party

E.H. Kirsch, Remarks after review in office:

Reviewed in office by: Leonard a husami 13.9.9

Examined and approved:

Chief. Section of Field Records

Chief, Section of Field Work

Chief, Division of

Hydrography and Topography.

#### REVIEW OF AIR PHOTO COMPILATION T-5164 (1934)

#### Topographic Stations:

The following recoverable topographic are described on Form 524, and shown on this compilation with the conventional circle.

Descriptions filed under T-6072 (Air Photo Control)

U. S. E. 23 (d)
Black Beacon No.1 (d)
Prop. Cor. 13 (d)

Descriptions filed under T-6056 (Air Photo Control) Rock Cut Rear Range Beacon (d)
Johns I. Rear " " (d)
U.S.E. 6 (d)
U.S.E. Marsh (d)
U.S.E. Block (d)
U.S.E. 2 (d)
U.S.E. Canal (d)

Stations noted above transferred in the office and checked by-

#### Comparison with other Surveya.

There is satisfactory agreement with T-6072 and T-6078 contemporary air photo control surveys. Comparison was also made with H-1639 (1885). Combined hydrographic and topographic survey; which this compilation is adequately detailed to supersede.

B. J. giones.

#### GEOGRAPHIC NAMES

Date May	6.	1935
COLC: MALES		

BOUTHICAROLINA

Survey No. <b>T-5164</b>	_
Chart No. 1239	.,
Diagram No. <u>1239-2</u>	

Approved by the Division of Geographic Names, Department of Interior. \*\frac{\times}{Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

Sæjus	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	River Road				
	Johns Island				
	Stono River				
	Rantowles Creek				
	Johns Island				
	Nos big Cone w	ord)			
	Melvin				
	Doneman				
	Dupont				
	Rhodes	-			
	Wappoo		<u> </u>	-	
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Report for Sufflemental T 5164

1 Supplemental filed 1/27/36

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added utotions
2. Berung marked out which have been moved. 1/21/36
moved. 1/27/36
3. Constions to month and 4/22/37
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