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DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR DESCRIPTIVE REPORT Field 9, TopographicSheet No. Reg. No. 5161 Hydrographic U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES JUL 17 1934 State South Carolina LOCALITY N. OF CHARLESTON HARBOR COOPER RIVER AND VICINITY ENTRANCE TO BACK RIVER

1934

CHIEF OF PARTY

E. H. Kirsch

U. S. GOVERNMENT PRINTING OFFICE: 193

applied to chart 1239 april, 1437 3.M.a.

SHEET NO. 9 REG. NO. 5161

PHOTO NOS. DATE 1275 through 1292 October 12, 1933 11:45 A.M. 22 hrs. before H. Tide. PROJECTION BY PROJECTION CHECKED BY CONTROL PLOTTED BY CONTROL CHECKED BY CONTROL PLOTTED ON PHOTOS BY CONTROL CHECKED ON PHOTOS BY TOPOGRAPHY TRANSFERRED BY ROPOGRAPHY CHECKED BY SMOOTH RADIAL LINE PLOT BY RADIAL PLOT CHECKED BY SCALE PLOT BY

AREA OF DETAIL INKED: 78.7 Square statute miles.

LENGTH OF SHORELINE: 30.7 st. miles (More than 200 meters from nearest opposite shore)

LENGTH OF COASTLINE: NONE

DETAIL INKED BY

LENGTH OF STREAMS: 137.4 St. Miles (Rivers and sloughs less than 200 meters wide)

LENGTH OF LAKE SHORELINE: 18.2 St. Miles (Artificial Lakes and Ponds)

# 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. 9

REGISTER NO. 5161	•
State South Carolina	
General locality N. of Charleston Harbor	
ocality Cooper River and Vicinity Entrance to Ba	
3.01.000 The beginning - $0.000$	
Scale 1:20,000/ Date of survey  Compilation - May 31, 1934  Vessel Air Photo Compilation Party No. 21, Charleston,	19
Vessel Air Photo Compilation rarty No. 21, Charles	
Chief of party E. H. Kirsch	9
Surveyed by See data sheet in descriptive report.	
Inked by M. D. Crook	
Heights in feet above to ground to tops of	trees
Contour, Approximate contour, Form line interval.	eet:
Instructions dated November 10, 1933	19
Remarks: None.	
	<del>-</del>

#### GENERAL INFORMATION

#### Statistics:

The land area covered by this sheet is 78.7 square statute miles. All inland with no outside coastline. The total length of river shoreline more than 200 meters from nearest opposite shore is 30.7 statute miles, and 137.4 statute miles of streams (rivers, creeks, and sloughs) less than 200 meters wide. The total shoreline for artificial lakes and ponds is 18.2 statute miles.

#### Report:

The land area covered by this sheet consists of marsh, timbered, grass, and cultivated land which is represented by symbols taken from the topographic manual (Special Publication No. 144). Most of the timbered land consists of pine and oak with pine predominating, but a few palmettos are to be found along the Cooper River and Black River sections.

The artificial lakes mentioned above are duck ponds and Goose Creek Reservoir. The Goose Creek Reservoir supplies Charleston with water.

# Photographs:

Only photographs from one flight 1275 to 1292 were used in the compilation of this sheet, but part of the 1100 flight (1147 to 1151) were also used in making the radial plot.

All photographs were taken by the U. S. Army Air Corps' 5-lens Camera, October 12, 1933. The time for the entire flight 1144 to 1318 was given as 10:35 A.M. to 12:15 P.M. Using 1284 as a mean, I find that the photographs used in the compilation of this sheet (1275 to 1292) were taken at approximately 11:45 A.M. which was exactly 2 hours and thirty minutes before high tide on that date.

#### CONTROL

#### Source:

Triangulation by: C. D. Meaney - 1933 G. D. Cowie - 1933 R. F. A. Studds, 1928 Lt. B. H. Rigg - 1933-34

No. T4815 \* Aluminum control sheet "V" Reg. No. T- 6084, and "U" Reg. No. T4815 \* by Lt. B. H. Rigg, Chief of Party - 1933-34. \*See Review.

All control has been reduced to N. A. 1927 datum.

\* T4515 is north of the lements of this compelation

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#### Errors:

No errors were found in the plotting of controls.

### Disorepancies:

No field inspection was made for triangulation stations, Song, Narrow, Mad, Ram, and 65 S.W. Radio Mast, Airways, 1933, so these stations were not used as control; All other stations were used except where they could not be spetted on the photographs, occasionally stations were spotted wrong, or wrong because of poor mounting, distortion or excessive tilt. If this could not be corrected the station was disregarded.

# Stations Disregarded:

Long, Narrow, Mad, Ram, 65 S.W. Radio Mast, Airways 1933 on all photographs - No field inspection.

The following stations were not spotted:

Station	Photograph No.
Blow	1275
Rain	1275, 1283, and 1285
Bell	1275
Bass	1275 and 1279
Babe	1277, and 1278 and 1280
Haul	1277 and 1280
Back	1277 and 1285
Farm	1278
Park	1277 and 1280
Deep R.M. No. 1,	1278, 1281, 1285 and 1286
Goose Creek	1278
More	1280
Nol1	1280
64 N.E. Radio, Airways 1933	1281
Вор	1281, and 1283
Miss	1281 and 1283
Bushy	1282
Charleston Airport Bn.	128L
Big	1285
Wind	1285

The following stations could not be made to fall on the photographs given respectively:-

Bank, Line, Sorub,	1275
Park	1276
Bell, Bank, and Bass	1277
Bank, Wind, Park, and Haul	1278
Big, Back, Haul, and Bushy	1279
Blow, Line, and Kil	1280
Goose Creek, Back, Haul,	
Park, and More	1281

Foster, Blow, Rain, Con, Scrub			
Coal, Bell, and Dig	1282		
Haul, Scrub, and Blow	1283		
Goose Creek, Rain, and Wind	1284		
Park and Blow			

#### COMPILATION

#### Method:

The standard radial line method was used as described in the U. S. Coast and Geodetic Survey 1933 Notes on the Compilation of Planimetric Line Maps from 5-lens Aerial Photographs.

# Adjustment of Plot:

No unusual adjustment was necessary as most of the photographs were free from excessive tilt, and reasonably clear.

The inked circle near Charleston Airport Beacon is a field light and was radial plotted onto the celluloid. Marked "Field Light"

# Interpretation:

All symbols used were taken from the Topographic Manual (Special Publication No. 144).

In one place, between Lat. 32° 56' and 32° 58' and Long. 80° 05' and 80° 06', the symbol for transmission line was not used. An open strip was left for the right-of-way and labled transmission line.

At triangulation station TOM a brick levee was shown with a solid line.

The U. S. Coast and Geodetic Survey Chart No. 1239, dated November 15, 1933, shows a single track railroad extending across this sheet from Long. 80° 01' to Long. 80° 02' and between Lat. 32° 52' and 32° 53'. This track is no longer in use and has been removed. The photographs show the old right-of-way, but very indistinctly and I have not shown it as it is partically covered by underbrush.

The upper portion of Back River, between Long. 79° 57' and 79° 58' and from Lat. 33° 00' to 33° 01', was compiled from a part of photograph 1277 so far out on the wing that it was not possible to get radial points in this section. However, Lieut. B. H. Rigg supplied a triangulation system dense enough to allow the compilation to be made without having to make any more adjustment than one would using radial points. This was done, and since photograph 1277, the one used for this particular section, was usually clear and true to scale for so far out on the wing, I feel confident the above mentioned section of compilation is correct and with in the allowed arror mentioned elsewhere in this report.

The value of 3 to 6 imiters given on the soffout page is high bi with on the weal. a beller estimate is an occurry of ilosotion of 5to 8 meters for interrected. joint and 5 to 15 meles brother detail. B.g. Jones

# Information from other Sources:

Field inspection by Lt. B. H. Rigg, Lt. E. H. Kirsch, and the compiler.

# Conflicting Names:

have been submitted on the form for approval.

COMPARISON WITH OTHER SURVEYS

Lam 1894.

A comparison was made with U. S. Coast and Geodetic Survey Chart No. 1239, and discrepancies found have been covered elsewhere in this report.

#### Junctions:

Junctions with adjoining sheets are good:

North - None

East - None

South - Sheet No. 19, Reg. No. 5171

20, 5172

21, 5173

24 5176

West - 5 5177 5157

#### Landmarks:

This sheet has no landmarks visible from any streams but has two radio masts - 65 S.W. Radio Mast, Airways 1933 (Position: Lat. 32° 54' 40.42"; Long. 80° 01' 36.78") and N.E. 64 Radio Mast, Airways 1933 (Position: Lat. 32° 54' 44.04; Long. 80° 01' 33.74") both masts are approximately seventy five feet high. An aviation beacon, Charleston Airport Aviation Beacon, approximately thirty feet high, is located at Position: Lat. 32° 53' 40.982"; Long. 80° 01' 55.687".

#### RECOMMENDATION FOR FURTHER SURVEYS

The compilation of this sheet is believed to have a probable error of not more than 3 meters in well defined detail of importance for charting and of not more than 6 meters for other data. To the best of my knowledge, and belief, this sheet is complete for charting purposes within the required accuracy and no additional surveys are necessary. See official years

Assisted by:

E. H. Kirsch, Chief of Party. Submitted by:

M. D. Crook.

# REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. 7-5/6/

Title (Par. 56) Cooper River and Vicinity - Entrance to Back River.

Chief of Party E. H. Kirsch

Compiled by M. D. Crook

Project HT-162

Instructions dated November 10, 1933

- 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, coral reefs and rocks, 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. (See note on following pages about lights and beacons in this area)
- 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.

- 10. The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
- 11. 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".
- 12. 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. Sheets.

  None Submitted for this Compiletion. Lam.
- 13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.)

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

19. Remarks:

20. Examined and approved:

E. H. Kirsch, Chief of Party

21. Remarks after review in office:

Reviewed in office by: Leonard a hubani 130

Examined and approved:

Chief, Section of Field Records

Chief. Division of Charts

Chief. Section of Field Work

Chief, Division of

Hydrography and Topography.

# Comparison with other surveys.

- 1. T-6084 (1934) plane table control survey. All detail on T-6084 in the area covered by this compilation is shown on the compilation except for temporary plane table stations.
- 2. Comparison with T-4434 and T-4435 (1928) shows only minor changes. The compilation is more detailed and is adequate to supersede these 1928 surveys for the area it covers except for the group of piling at latitude 32° 57.8', longitude 80° 55.5' which do not appear on the photos but which may still exist.

None of the beacons and lights in this area were located by the compiler. The two lights and two beacons shown were identified on the photographs and plotted in this office. The date of location is October 12, 1933. The other aids in this area cannot be seen on the photographs.

B. g. Jones

GEOGRAPHIC	NAMES
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Date. April 22,1935

Survey No	T-5161
Chart No	<del></del>
Diagram No	

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

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	BACK RIVER				
<del></del>	FOSTER CREEK				
	COOPER RIVER				
	GROVE CREEK				
	BIG ISLAND				
	SLACK REACH				
	SANDERS CREEK				
	HAULOVER LANDING V				
	HARD LANDING				
	GOOSE CR. RESERVOIR			•	
	TEN MILE STATION				_
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Date. Nov 30, 1934

# GEOGRAPHIC NAMES

Survey No. 7-5/6/
Chart No. 680, 1239
Diagram No. 1239

- \*, Approved by the Division of Geographic Names, Department of Interior.
- •¢, Not Approved by the Division of Geographic Names, Department of Interior.
  - R, Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	Ashley Phosphate Ko	ad			·
	Remount Road				<u> </u>
		-1			
	Midlaud Park Roa				
	Red Bank Road				·
	Haylover Landing			45 G.S.	
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