

5167

Fig. 1000 - Barren Bank

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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

Topographic Field No. 15
Hydrographic Sheet No. Reg. No. 5167

State SOUTH CAROLINA

LOCALITY

~~CHARLESTON HARBOR AND VICINITY~~

North Edisto River to Fishing Creek

~~1 mile E. of S. Edisto River~~

Dawho River

1934

CHIEF OF PARTY

E. H. KIRSCH

U. S. GOVERNMENT PRINTING OFFICE: 1934

5167

SHEET NO. 15
REG. NO. 5167

PHOTOS NO.

M-106 through M-110 - 807J-8
M-111 through M-112 - 807J-8
M-120 through M-123 - 807J-8
M-70 through M-74 - 807J-8

DATE

TIME

November 9, 1933 11:15 AM 1h 8m before high tide.
November 9, 1933 11:24 AM 59m before high tide.
November 9, 1933 11:35 AM 48m before high tide.
October 25, 1933 12:35 PM 29m before high tide.

PROJECTION BY

L. C. Ripley
L. C. Ripley

1-11-34

PROJECTION CHECKED BY

E. H. Kirsch
E. H. Kirsch

1-11-34

TRIANGULATION PLOTTED BY

M. R. Donaldson
M. R. Donaldson

1-15-34

TRIANGULATION CHECKED BY

T. P. Mitchell
T. P. Mitchell

1-16-34

TRIANGULATION PLOTTED ON PHOTOS BY

J. F. Richardson
J. F. Richardson

TRIANGULATION ON PHOTOS CHECKED BY

F. H. McBeth
F. H. McBeth

SCALE PLOT BY

J. H. Wulbern
J. H. Wulbern

1-5-34

RADIAL PLOT BY

M. D. Crook
M. D. Crook

2-6-34

DETAIL BY

H. W. Langley
H. W. Langley

2-6-34 to 2-27-34

AREA OF DETAIL INKED: 23.415 Square Statute Miles. (Land Area)

LENGTH OF SHORELINE: 25.875 Statute Miles (More than 200m from nearest opposite shore)

LENGTH OF STREAMS: 51.75 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. 15

REGISTER NO. 5167 **5167**

State South Carolina

General locality North Edisto River
Charleston Harbor and Vicinity.

Locality Dawho River
North Edisto River to Fishing Creek 3 mile E. of S. Edisto River.

Scale 1:10,000 Photographs - November 9, 1933
Date of ~~survey~~ October 25, 1933 19

Compilation - February 27, 1934
Vessel Air Photo Compilation Party No. 21, Charleston, S. C.

Chief of party E.H. Kirsch

Surveyed by See data in descriptive report.

Inked by H. W. Langley

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

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

Instructions dated November 10, 1933, 19

Remarks:

GENERAL INFORMATION

Statistics:

The area covered by this sheet is 23.415 square statute miles. There are 25.875 statute miles of shore line measured along streams more than 200 meters wide. There are 51.75 statute miles of rivers and sloughs less than 200 meters wide, but not including sloughs and streams small enough to be shown as single lines.

General Report:

This area is covered by Lt. B. H. Riggs' general report on field inspection 1933-34, submitted with sheet No. 1, Reg. No. 5153 .

Area covered by this sheet consists of low marsh land, tidal flats, cultivated fields and wooded areas.

Photo Numbers:

These pictures were taken as follows; M-106 - 807J-8 through M-110 - 807J-8, 11:15 A.M. November 9, 1933 - 1 hour and 8 minutes before high tide; M-111 through 112 - 807J-8 11:24 A.M. November 9, 1933 - 59 minutes before high tide. M-120 through 123 807J-8, 11:35 A.M. November 9, 1933, 48 minutes before high tide; M-70 through 74 - 807J-8, 12:35 P.M. October 25, 1933, 29 minutes before high tide.

CONTROL

Source:

Triangulation by G. D. Cowie and R. L. Shoppe - 1933; and C. A. Egner - 1933.

Aluminum control sheets L Reg. No. 6059, and "P" Reg. No. 6082^a, by Lt. B. H. Rigg, Chief of Party.

Field geographic positions were used and reduced to 1927 N. A. datum.

Errors:

No plottable errors were found in the control.

Discrepancies:

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

* This shoreline has been further examined. The tide tables shows that the photographs here (M70-807J to M74-807J) were taken at 0.4 ft. below M.H.W. where the mean range of tide is approximately 5 feet. After an office inspection the A.V. line was closed around the marsh islands wherever they had been left open by the compiler, and where this line did not appear too indefinite on the photographs. ~~The attached A~~ photostat showing this section of the compilation before these changes were made is filed with the calloid.
LAW
Bgg

* There is no indication of a levee here from an inspection of the photograph. (M107-807J)
LAW

COMPILATION

Method:

Single lens photographs with radial line plot as described in 1933 U. S. C. & G. S. Notes for Compilation of Planimetric Line Maps from 5-lens Aerial Photographs.

Adjustment of Plot:

No adjustment was necessary for the radial plot. The control was dense enough so that each photograph could be plotted.

Interpretation:

Slight difficulty was encountered in finding the directions of roads through wooded areas. In such cases, the roads were drawn only where they were easily seen on the photographs. Indefinite roads, ditch limits, etc., were not drawn.

The shorelines included between Long. $80^{\circ} 17'$ and $80^{\circ} 20'$ and Lat. $32^{\circ} 37'$ and $32^{\circ} 38'$ are very indefinite on the photographs; hence they are shown by ending the marsh lines at these edges. ** See opp. page.*

The straight line which marks the limit of the marsh between Long. $80^{\circ} 20'$ and $80^{\circ} 21'$ and Lat. $32^{\circ} 36'$ and $32^{\circ} 37'$ is probably a small levee. ** See opp. page.*

Information from other Sources:

Aluminum control sheets "L" Reg. No. 6059, and "P," Reg. No. 6082^a, Lt. B. H. Rigg, Chief of Party - 1934, Field Inspection Notes.

Conflicting Names:

No conflicting names were recorded by the field inspection party. *No new names are shown*

COMPARISON WITH OTHER SURVEYS

Junctions:

All junctions are satisfactory:

North -	Sheet 5159
East -	5166
South -	5155
West -	5168

The shoreline on aluminum control sheet "L" agrees with this air photo sheet. *T6059*

On the Dawho River between Long. $80^{\circ} 19'$ and $80^{\circ} 22'$ ^{T6082 a} a large amount of high water line was rodded in on A.C.S.S. "P". This was considered necessary because of indistinct photographs. The majority of rodded points fell on the compiled shore line, but where they did not, the compilation was changed to agree with the A.C.S.S. In some cases the shoreline as sketched by the topographer between rod readings fails to check the compiled shore line by 4 to 6 meters; but when the rodded points fall on the compiled shoreline, the intermediate high water line as traced from the photographs is considered correct.

The point of marsh lying in the extreme southeast corner of this sheet was transferred from A.C.S.S. "L" as the point, coming just at the edge of Photos M-122 and 123 - 807J-8, was indistinct and difficult to trace.

The black circles shown along McLeod Creek and Russell Creek are hydrographic signals located in the field and spotted on the photographs by Lt. B. H. Riggs' party. *There are not recoverable. They will remain on the celluloid as a record but will not appear on the*

Landmarks: *printed compilation.*

Landmarks for charts and a list of marked stations are being submitted with aluminum control sheets "L" Reg. No. 6059, and "P" Reg. No. 6082a, 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.

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

Remarks:

Bridges:

The only important bridge on this sheet is the Dawho River Bridge. It is a steel draw bridge.
Width of Draw: North side - 60.1 ft. South Side - 55.8 ft.
Width of Roadway - 11.6 ft.
Overall length of bridge - 683.2 ft.
It has a vertical clearance of 8.30 ft. at mean high water.
Engineers list for 1927, Page 114, shows H.W. (not M.H.W.) clearance - 5 ft.

Assisted by:

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

Submitted by:

H. W. Langley
H. W. Langley.

REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO.

Title (Par. 56) North Edisto River to Fishing Creek $\frac{1}{2}$ mile E. of S. Edisto R.

Chief of Party E. H. Kirsch

Compiled by H. W. Langley

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 used 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.
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.

* Beacon No 10. is listed ^{in the U.S.N.H. Beacon} ~~with the~~ list of beacons for this area. It is not shown on either this compilation or on the photo control sheet No 6082(a).

Larn 1399

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.S. T6059
See opp. page. T6082
13. A list of landmarks for charts was furnished on Form 567 and scal-
ing of positions checked. (Par. 16d, e, 60.) T6059
Submitted with A.C.S. T6082
14. The geographic datum of the sheet is N. A. 1927 and
the reference station is correctly noted. (Par. 34.)
*The reference station - STEVENS TANK - has been field reduced
to N.A. 1927 datum. It is not an office adjusted position*
15. Junctions with contemporary surveys are adequate. ✓ *ENK*
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: *See following page.*

20. Examined and approved: *E. H. Kirsch*
W. H. Kirsch, Chief of Party

21. Remarks after review in office:

Reviewed in office by: *Leonard A. Whelsum* *B. J. Jones*

Examined and approved:
K. T. Adams
Asst Chief, Section of Field Records
Division of Charts
K. T. Adams
Acting Chief, Division of Charts

F. B. Gordon
Chief, Section of Field Work
G. W. Hilde
Chief, Division of
Hydrography and Topography.

REVIEW OF AIR PHOTO COMPILATION T-5167 (1934)

Comparison with other surveys:

The area is covered in part by plane table control surveys Nos. 6059 and 6082a. These agree except where noted in the Descriptive Report under the article "Comparison with Other Surveys".

A comparison with the latest plane table survey prior to those mentioned above shows that this compilation is complete and sufficiently detailed to supersede this survey (T-679; 1856,-57).

Recoverable Topographic Stations:

Descriptions on Form 524 are filed as follows:

<u>Station</u>	<u>Filed under Photo Control Sheet No.</u>
Trim (d)	T-6059
Beacon No. 2 A (d)	T-6082a
Beacon No. 2 (d)	"
Beacon No. 1 (d)	"
U.S.E.D. No. 55 (d)	"
U.S.E.D. No. 53 (d)	"
Boý (d)	"
Square Concrete House (d)	"

Louard A. Munsam
B. G. Jones

Survey No. T-5167

GEOGRAPHIC NAMES

Date. February 25, 1935

Chart No. _____

Names underlined in red SC approved Mar. 13, 1935
Harlow Bacon

U.S. COAST & GEOD. SURV.
 Diagram No. 1239-2
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 Examination by W. H. N.

FEB 26 1935

*, Approved by the Division of Geographic Names, Department of Interior.

Ø, Not Approved by the Division of Geographic Names, Department of Interior.

R, Referred to the Division of Geographic Names, Department of Interior.

Acc. No. _____

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>SLANN ISLAND</u>	T-1234-1929 Official Railways Guide Same			
	<u>SLANN</u>	"			
	<u>PARK ISLAND</u>	"			
	<u>McLEOD CREEK</u>	" T-1234-1929 H-5471-1934			
	<u>JEHOSSEE ISLAND</u>	"			
	<u>FISHING CREEK</u>	"			
	<u>DAWHO RIVER</u>	"			
	<u>WHITE POINT</u>	"			
	<u>WHITE POINT LANDING</u>	"			
	<u>WHITE POINT ROAD</u>	"			
	<u>NORTH CREEK</u>	"			
	<u>WHOOPING ISLAND</u>	"			
	<u>WHOOPING ISLAND CREEK</u>	"			
	<u>LITTLE EDISTO ISLAND</u>	"			
	<u>RUSSEL CREEK</u>	" (GN34)			
	<u>STEAMBOAT CREEK</u>	"			
	<u>STEAMBOAT LANDING</u>	"			
	<u>LONG CREEK</u>	"			
	<u>SAND CREEK</u>	"			
	<u>AUTHORITY:</u>				
		SLANN - 1239 1929			
		" - Official Guide to the Railways, 10/1923 -No.5			
		McLEOD - 1239 1929			
		" - 5167 1933			
		RUSSEL * GN 34			

Applied to Chart 838 Jan. 21, 1936 W.A. Bruders
Applied to Chart 793 March 20, 1936 H. MacSwain
" " " 1239 April, 1936 F.M.A.

