

5179

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton., Director

U. S. COAST & GEODETIC SURVEY
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State: South Carolina

DESCRIPTIVE REPORT

Topographic

Hydrographic

Sheet No.

Field No. 27

Reg. No. 5179

LOCALITY

S. CAROLINA

CHARLESTON HARBOR AND VICINITY

ASHLEY RIVER - WAPPOO ~~RIVER~~ CREEK

1934

CHIEF OF PARTY

E. H. Kirsch

U. S. GOVERNMENT PRINTING OFFICE: 1921

5179

PHOTOS NO.

M-13 - 823A-8 through M-19
M-101 - 807M-8 and M-102
M-118 through M-124 - 823A-8

DATE

October 25, 1933
October 25, 1933
December 21, 1933

TIME

1:15 PM 11m after high tide.

1:05 PM 1m after high tide.

12:35 PM 1h 16m after high tide.

PROJECTION BY

L. C. Ripley
L. C. Ripley

2-9-34

PROJECTION CHECKED BY

E. H. Kirsch
E. H. Kirsch

2-9-34

CONTROL PLOTTED BY

M. L. Smith
M. L. Smith

2-12-34

CONTROL CHECKED BY

M. L. Smith
M. L. Smith

2-12-34

CONTROL PLOTTED ON PHOTOS BY

F. H. McBeth
F. H. McBeth

CONTROL CHECKED ON PHOTOS BY

J. F. Richardson
J. F. Richardson

TOPOGRAPHY TRANSFERRED BY

A. E. Nowell
A. E. Nowell

4-9-34

TOPOGRAPHY CHECKED BY

E. J. Anderson
E. J. Anderson

4-12-34

SMOOTH RADIAL PLOT BY

L. C. Lande
L. C. Lande

2-27-34

RADIAL PLOT CHECKED BY

L. C. Lande
L. C. Lande

2-27-34

SCALE PLOT BY

J. H. Wulbern
J. H. Wulbern

DETAIL INKED BY

A. E. Nowell
A. E. Nowell

4-12-34

AREA OF DETAIL INKED: 13.7 Square Statute Miles (Land Area)

LENGTH OF SHORELINE: 10.9 Statute Miles (More than 200m from nearest opposite shore)

LENGTH OF STREAMS: 17.25 Statute Miles (Rivers and sloughs less than 200m wide)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5179

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. 27

REGISTER NO. 5179

State South Carolina

General locality Charleston Harbor and Vicinity.

Locality Ashley River - Wappoo ~~REEF~~ CREEK

Scale 1:10,000 Photographs - October 25, 1933
Date of ~~survey~~ December 21, 1933

Compilation - April 12, 1934.
Vessel Air Photo Compilation Party No. 21, Charleston, S. C.

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, 1934., 19

Remarks: _____

GENERAL INFORMATION

Statistics:

This sheet covers an area of 13.7 square statute miles with 10.9 statute miles of river and shore line (defined to include streams of more than 200 meters only) and 17.25 statute miles of rivers, streams, sloughs and waterways of less than 200 meters in width.

No coast~~al~~ shoreline appears on this sheet.

Report:

The area covered by this sheet consists of marsh, timber, cultivated fields and a portion of Charleston which is shown by the usual symbols.

The field inspection report 1933-34 covering the series of sheets is to be furnished by Lt. B. H. Rigg. *Attached to report T5153*

Photographs:

Photographs from parts of three different flights were used in compiling this sheet, these photographs of the single lens type were taken by the U. S. Army Air Corps'. The photos used are M-13 through M-19 - 823A-8; M-101 and M-102 - 807M-8; M-118 through M-124 823A-8.

CONTROL

Sources:

The following sources of control were used in the compilation of this sheet:

Triangulation by - L. P. Raynor, 1924
- R. F. A. Studds, 1928
- C. D. Meaney, 1932
- G. D. Cowie and R. L. Shoppe, 1933

Aluminum Control Sheets "B" Reg. No. *T-6069*, "E" Reg. No. *T-6071* and "F" Reg. No. *T-6072*, by Lt. M. O. Witherbee and Lt. B. H. Rigg, 1934.

The field partys' geographic positions ^{*reduced*} have been ~~adjusted~~ to the N. A. 1927 datum. The differences between the unadjusted and final positions would be implottable at the scale of compilation.

Errors:

No errors were discovered in the positions of the aluminum control signals.

There was no inspection on the following triangulation stations: PAUL, TRACK and U.S.E.D. COLD.

Triangulation Station: PONT has been lost, although reference marks No. 1, and 2 are in place.

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

COMPILATION

Method:

The usual radial line method of plotting, as described in the U.S.G. & G. Survey Notes for Compilation of Planimetric Line Maps from Five Lens Aerial Photographs, was used in the compilation. This sheet was compiled from Single lens pictures.

Adjustment of Plot:

The photographs used appear to be free of excessive tilt and scale fluctuations and no unusual adjustments were necessary in making the radial plot.

Interpretation:

The usual graphic symbols, as approved by the Board of Surveys and Maps 1932, were used.

The roads through the wooded area just South of Windemere, bounded by Long. $79^{\circ} 59'$ - $79^{\circ} 58'$ and Lat. $32^{\circ} 46'$ - $32^{\circ} 47'$ did not show up continuously in the pictures but nevertheless with a little field inspection they could be shown in full.

In Edge-Water Park which is East of the Stono River and North of Elliott Cut the Photos show double roads. Since traffic uses but one side, only the used roads have been shown in the compilation.

The direction of the dirt road nearest the river, North of Lat. $32^{\circ} 48'$ and East of Long. $79^{\circ} 58'$ has been slightly changed due to alterations in same having been made after the pictures were taken.

There has been some filling in of the marsh area in this immediate section and said changes have been incorporated on this sheet.

Double full lines have been used to indicate first order roads - double broken lines to indicate 2nd order or graded dirt roads and single broken lines have been used for unimproved dirt roads, trails and private roads.

Names and new name, Folly Beach road,
has been retained pending Mr. Bowens
decision on its use.

B.G.J.

Information from other Sources:

Information concerning the railroads around the manufacturing plants appearing on this sheet North of Charleston was obtained from the map of the Port of Charleston. The Port Utilities Commission of Charleston which is dated - Charleston, S. C., March 1, 1923, Revised to November 1928 compiled and drawn by J. H. Garety, Port Engineer. Nothing was transferred from this map.

Conflicting Names:

There are no names on this sheet conflicting with names shown on the U.S.C. & G.S. Charts of this area. *see opposite page*

COMPARISON WITH OTHER SURVEYS

Junctions:

The junctions with all adjoining sheets are satisfactory:

North - Reg. No. 5176	
East - Reg. No. 5182	5178
South - Reg. No. 5178	5182
West - Reg. No. 5164 and 5157	✓

Landmarks:

The list of landmarks on form 567 for this area was submitted by Lt. M. O. Witherbee and Lt. B. H. Rigg with aluminum control sheet "B" Reg. No. *T-6069*, "E" Reg. No. *T-6071*, and "F" Reg. No. *T-6072*.

The piling that was shown on the North point of the Mouth of Wappoo Creek on previous chart No. 470 are gone and all that remains is the ruins of an old brick building, consequently does not show on photos. Field Inspection shows that a boiler appears at approximately Lat. $32^{\circ} 48' 20''$ - Long. $79^{\circ} 58' 03''$ and is not a boulder as shown on chart 470.

The stack at approximately Lat. $32^{\circ} 49' 24''$ and Long. $79^{\circ} 57' 20''$ also chimney at approximately Lat. $32^{\circ} 49' 33''$ and Long. $79^{\circ} 57' 27''$ cannot be located on the photos, but field inspection shows that they still remain as shown on previous chart 470. ✓

There is only ruins left of the docks at Lat. $32^{\circ} 48' 54''$ Long. $79^{\circ} 57' 50''$ and at $32^{\circ} 48' 20''$ Long. $79^{\circ} 58' 00''$ - shown on chart 470 as being in good condition.

RECOMMENDATION FOR FURTHER SURVEYS

The compilation of this sheet is believed to have a probable error of 3 meters in well defined detail of importance for charting and of 6 meters for other data. It is understood that the width of roads, bridges, railway track yards and similar objects may be slightly expanded

in order to keep the detail clear and to keep it from photographing as a solid area in the photo lithographic process.

Draw Bridges:

Ashley River Highway Bridge, Drawbridge, Bascule type -
34' Roadway - 2 sidewalks - Horizontal clearnace 132' - Vertical
clearance at closed draw at mean high water 20.2'.

U.S. Engineers give clearance of H.W. = 14 ft. (closed)

Draw Bridge - Swing type:

Seaboard Air Line R.R. single track bridge, width of
bridge 18'. Vertical clearance when closed is 15' at high water.
Horizontal clearance each side of center pier is 106'.

U.S. Engineers give clearance of H.W. = 14.35 (closed). Lamm.

To the best of my knowledge the detail in all detail *Bgg*
of importance for charting purposes is within the accuracy stated above,
and no additional surveys are necessary.

Assisted by:

E. H. Kirsch

E. H. Kirsch,
Chief of Party.

Submitted by:

A. E. Nowell

A. E. Nowell.

REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. *7.5179.*Title (Par. 56) Ashley River - Wappoo ~~But~~ *Creek*

Chief of Party E. H. Kirsch

Compiled by A. E. Nowell

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. ✓
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:-
T-6071, T-6072. Plotted in office by Benson. July 31, 1934.
13. A list of landmarks for charts was furnished on Form 567 and scal-
ing of positions checked. (Par. 16d, e, 60.)
Submitted with A.C. Sheets.
14. The geographic datum of the sheet is N. A. 1927 and
the reference station is correctly noted. (Par. 34.)
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:

See following page.

20. Examined and approved:

E. H. Kirsch

E. H. Kirsch, Chief of Party

21. Remarks after review in office:

Reviewed in office by:

Leonard A. Kutsch *B. G. Jones*

Examined and approved:

K. T. Adams
Asst Chief, Section of Field Records
Division of Charts
L. O. Colburn
Chief, Division of Charts

B. Borden
Chief, Section of Field Work
G. W. de
Chief, Division of
Hydrography and Topography.

REVIEW OF AIR PHOTO COMPILATION NO. T-5179 (1934)

Topographic Stations:

The following recoverable topographic stations are described on Form 524:

Filed under T-6071 (Plane table control survey)	(Old Town Channel, Rear Range (d)
	(Old Town Channel, Front Range (d)
	(U.S.E. Ashley (d)
	(Citadel Tower (d)
	(S. C. Cotton Oil Co. Tank (d)
Filed under T-6072 (Plane table control survey)	(U.S.E. No. 7 (d)
	(U.S.E. McLeod (d)
	(Wappoo Creek Rear Range (d)
	(U.S.E. 11 (d)
	(U.S.E. 14 (d)

Channel Ranges:

The following azimuths of ranges have been copied from T-6071 and T-6072 on which they were determined.

Old Town Range 218° 15')	Azimuth redoned from near range
Wappoo Creek Range 239° 02')	point. South thru west.

Comparison with Other Surveys:

There is good agreement between this compilation and plane table surveys T-6069, T-6071, and T-6072. Points of detail of a permanent nature ~~unable to be~~ ^{not} identified on the photographs were transferred from these surveys to the compilation.

Comparison was also made with Chart 470. Under Article "Landmarks" p. 3 Descriptive Report: The stack, Lat. 32° 49' 24", Long. 79° 57' 20"; and the chimney, Lat. 32 ° 49' 31", Long. 79° 57' 30" are shown on Chart No. 470 and T-4433 (1928). They are not shown on the compilation as they could not be identified on the photographs. See page 3 of the report.

The dolphins on the Ashley River at approximate Lat. 32° 49' 16" were evidently transferred from H-5449 by the field compilation party. These dolphins do not appear on the photos or the plane table surveys.

dolphins
The lower group appearing about 200 meters north of latitude 32° 49' were transferred from H-5449 in the office. It is impossible to identify these dolphins on the photographs and they do not appear on any ~~concurrent~~ field survey except H-5449.

Comparison was also made with T-1604a (1876); T-1604b (1879); T-3854 (1921). Except for the landmarks appearing on T-4433 (1928), discussed above, this compilation is adequate to supersede the older topographic surveys of the same area.

B.G. Jones

Survey No. TX-5179

GEOGRAPHIC NAMES

Date. Jan. 25, 1935Chart No. 1239

Names approved Jan. 25, 1935.

Diagram No. _____

*, 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.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Duck Island</u>	Same			
	<u>Duck Island Channel</u>	"			
	<u>Ashley River</u>	"			
	<u>Orangegrove Creek</u>	"			
	Pinckney <u>old Town</u> see GN 14 (1937)			Pinckney	
	<u>Oldtown Creek</u>	"			
	<u>Hampton Park</u>	"			
	<u>Hoff</u>	"			
	<u>Vorhees</u>	"			
	Ravenel <u>Farmfield</u> *	"			
	Harris <u>Horris</u> *	"			
	<u>Brennan</u>	"			
	<u>Windemere</u>	"			
	<u>St. Andrews</u>	"			
	<u>Croghan</u>	"			
	<u>Wappoo Creek</u>	"			
	<u>Elliott Cut</u>	"			
	<u>Stono River</u>	"			
	Albemarle <u>Maryville</u> see GN 14 (1937)	"			
	* change noted on T-5179 Dec. 8, 1936 Authority - C.L. 454, June 26, 1936 (B.H. Rigg) P. 2 G.H. Everett				

Applied to drawing of chart # 470.

Feb. 18, 1935 g. H. S.

Applied to chart 837- Sept 1935, HNC.

" " " 1239 Apr. 1937 J. M. A.