

5176

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

DESCRIPTIVE REPORT

Air
Photo

Topographic
~~Hydrographic~~

Field No. 24

Sheet No. Reg. No. 5176

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

JUL 17 1934

Acc. No. _____

State South Carolina

LOCALITY

VICINITY OF CHARLESTON HARBOR

NORTH CHARLESTON

1934

CHIEF OF PARTY

E. H. Kirsch

U. S. GOVERNMENT PRINTING OFFICE: 1934

5176

Applied to chart 1234 Apr. 1937 D.M.A.

PHOTOS
M-124 - 823A-8 to M-129 - 823A-8
M-162 - 823A-8 to M-167 - 823A-8

DATE
December 21, 1933
December 21, 1933

TIME
12:35 P.M.
1:25 P.M.

PROJECTION BY

L. C. Ripley
L. C. Ripley

2-12-34

PROJECTION CHECKED BY

E. H. Kirsch
E. H. Kirsch

2-12-34

CONTROL PLOTTED BY

M. L. Smith
M. L. Smith

2-14-34

CONTROL CHECKED BY

W. W. Johnson T
W. W. Johnson

2-14-34

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

L. C. Ripley
L. C. Ripley

TOPOGRAPHY CHECKED BY

E. J. Anderson
E. J. Anderson

SMOOTH RADIAL LINE PLOT BY

E. J. Anderson
E. J. Anderson

L. C. Lande
L. C. Lande

RADIAL PLOT CHECKED BY

L. C. Ripley
L. C. Ripley

SCALE PLOT BY

J. H. Wulbern

DETAIL INKED BY

L. C. Ripley
L. C. Ripley

AREA OF DETAIL INKED: 14 Square statute miles.

LENGTH OF SHORE LINE: 11.7 statute miles (more than 200m wide).

LENGTH OF STREAMS: 20.7 statute miles (less than 200m wide).

LENGTH OF COAST LINE: None.

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. 24

REGISTER NO. 5176 **5176**

State South Carolina

General locality Vicinity of Charleston Harbor

Locality North Charleston

Scale 1:10,000 Photographs - December 21, 1933
Date of ~~survey~~ 19

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 L. C. Ripley

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:

This sheet is one of 16 atlas sheets covering Charleston, S. C., and Vicinity. A general field inspection report of this entire area was submitted by Lt. B. H. Rigg, Chief of Party 1933-34, submitted with sheet No. 1; Reg. No.

For Field Inspection Report of Lt. Rigg. see Desc. Report T-5153.

The land area of this particular sheet is 14 square statute miles, consisting of wooded areas, several settlements or hamlets, and the U. S. Navy Yard.

The shore lines of streams over 200 meters wide, the Ashley and Cooper Rivers, are 11.7 statute miles long.

The length of streams etc. of less than 200 meters wide is 20.7 miles.

The pictures covering this area are portions of two flights: M-124 823A-8 to M-129 - 823A-8 commenced in the South west portion of the sheet, plane Northbound at 12:35 P.M. December 21, 1933, 56 minutes after high tide. Pictures M-162 - 823A-8 to M-167 - 823A-8 commenced in the North east portion of the sheet, plane Southbound, and finished in the Southeast portion at 1:25 P.M. December 21, 1933, 1 hour 46 minutes after high tide.

The U. S. Engineers grid of coordinates based on Flynn's Church have been superimposed on this sheet with markings following the system that 15N indicates 15000 feet north of center of origin - 10W indicates 10000 feet west of center of origin.

The only control used on this sheet was triangulation stations established by Messrs. G. D. Cowie and R. L. Shoppe in 1933 reduced to N.A. 1927 datum.

Intersection stations by C. D. Meaney 1932 and triangulation by M. O. Witherbee 1933 and 1934.

Only the Southern end of this sheet is covered by aluminum control sheet "E" Reg. No. T-6071, M. O. Witherbee, chief of party 1933-34.

Errors:

No errors were found in the control by the photo plot.

Compilation:

The standard Radial Line method of plotting was used on overlay sheets "C" and "F" and points so established were transferred to this sheet.

Adjustment of Plot:

Although none of the Photos were excessively out of scale none were true to scale necessitating constant shifting. However, as only small portions were traced at each setting, it is believed that no appreciable

error exists from this source.

Interpretation:

The usual graphic symbols have been used throughout the sheet. Any questionable points were cleared up either by field inspection by the compiler or his familiarity with the territory in question.

Double full lines indicate highways with permanent surface material - concrete, asphalt, or tar and gravel macadam.

Double dotted lines indicate roads of secondary nature - graded sand-clay or sand, also those laid out as streets in settlements although they may not be graded at present time.

Single dotted lines indicate ungraded roads, trails, private roads.

Single full lines indicate ditches.

Information from other Sources:

A large scale map approximately 12 inches to the mile, made by J. H. Garety, Engineer for the Port Utilities Commission of the City of Charleston was at hand and was of great assistance in identifying railroads, spur tracks, roads etc. It was not traced or transferred in any case but was freely used to identify features seen on photographs, and for names.

COMPARISON WITH OTHER SURVEYS:

Junctions:

Satisfactory junctions have been made with sheet 5173 on the North, 5175 on the East and 5179 on the South, also 5161 and 5157 on the West.

Landmarks:

All ~~landmarks~~ ^{recoverable} and marked topographic stations on this sheet have been shown by a black circle. See Legend under the Title.

Several changes in landmarks have been made from those shown on chart No. 470.

Landmarks added are as follows:

Two groups of dolphins in the Ashley River with four to the group. Geographical Positions are:

Lat.	Long.
32° 50' 434.0 meters (1414.3)	79° 58' 827.7 meters (732.8)

32° 50' 389.5 (1458.6)	79° 58' 763.1 (797.4)
32° 50' 354.0 (1494.3)	79° 58' 705.1 (855.4)
32° 50' 330.3 (1518.0)	79° 58' 635.0 (925.5)
32° 49' 1600.0 (248.3)	79° 58' 32.0 (1528.5)
1533.5 (314.8)	23.6 (1536.9)
1436.3 (412.0)	79° 57' 1536.7 (23.8)
1387.8 (460.5)	1499.1 (61.4)

A group of two dolphins in the Cooper River, the Geographic Positions are:

32° 51' 1777.0 (71.3)	79° 57' 1259.9 (300.0)
32° 51' 1751.5 (96.8)	79° 57' 1262.5 (297.4)

A group of 4 Dolphins in the Cooper River whose G.P.s' are:

Lat. 32° 52' 1359.3 (489.0)	Long. 79° 58' 120.2 (1439.4)
1378.3 (470.0)	121.5 (1438.1)
1397.1 (451.2)	120.4 (1439.2)
1424.4 (423.9)	121.5 (1438.1)

A group of 6 dolphins in Cooper River whose G.P.s' are:

Lat. 32° 53' 33.5 (1814.8)	Long. 79° 58' 130.8 (1428.8)
33.5 (1814.8)	106.5 (1453.1)
135.3 (1713.0)	91.8 (1467.8)
141.5 (1706.8)	113.9 (1445.7)
186.6 (1661.7)	106.8 (1452.8)
250.0 (1598.3)	102.4 (1457.2)

A group of 6 dolphins in Cooper River whose G.P.s' are:

Lat. 32° 53' 552.7 (1295.6)	Long. 79° 58' 42.0 (1517.6)
576.1 (1272.2)	14.2 (1545.4)
586.8 (1261.5)	35.1 (1524.5)
600.9 (1247.4)	8.0 (1551.6)
680.2 (1168.1)	15.4 (1544.2)
692.5 (1155.8)	79° 57' 1554.6 (5.0)

Landmarks deleted are as follows:

Two wharves and two ruins of wharves all just North of Lat. 32° 50' and West of Long 79° 58' which no longer exist. ✓

^{was} Buildings which no longer exist as follows: one whose North-west corner ~~is~~ Lat. 32° 50' 853.0, Long. 79° 58' 738.0

Group of ten whose approximate center is Lat. 32° 50' 437.0
Long. 79° 58' 232.0. * ~~See app p. 7.~~ This apparently refers to buildings which have been removed here.

One large building Lat. 32° 50' 222.0 crossing Long 79° 58' ✓
also that portion of building next south which extends west of Long. 79° 58'.

Building whose North west corner ^{was} ~~is~~ Lat $32^{\circ} 49' 165.3$ Long. $79^{\circ} 57' 1329$ also Western half of long. building next south.

A flag staff in the property of the Texas Company which no longer exists Lat. $32^{\circ} 53' 322$, Long. $79^{\circ} 58' 584$ approx. ✓

Entire group of 6 large and 7 small buildings North of Noisette Creek, West of Cooper River, East of R.R. which are non-existent. Stack remains as now on chart.

Group of 7 permanent moorings in Cooper River opposite Navy Yard which were removed several years ago.

Dock on point of land opposite Navy Yard has been cut back approximately to the bend of same.

See also list of landmarks submitted with aluminum control sheet "E" Reg. No. *7-6071*, Lt. M. O. Witherbee, Chief of Party 1933-34.

Changes in Names:

The following changes in names are noted from chart No. 470:—

Ashley Junction is now known as North Charleston the A.C.L. having built a passenger station there. *all other names agree with the chart*

Recommendation for further surveys:

The compilation of this sheet is believed to have probable errors not to exceed 3 meters in position of well defined detail of importance for charting and not to exceed 6 meters for other data. *see below. **

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

Assisted by:

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

Submitted by:

L. C. Ripley
L. C. Ripley

** The value of 3 to 6 meters given above is a little high for work on this reach. A better estimate is an accuracy of location of 2 to 5 meters for interested points and 2 to 10 meters for other detail.*

B. G. Jones

REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO.

Title (Par. 56) South Edisto River - JEHOSSIE ISLAND

Chief of Party E. H. Kirsch
F.P.-13-S.C. 1933-5

Compiled by H. C. Ripley

Project Air Photo Compilation Party
No. 21, Charleston, S. C.

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.) ✓
No bridges over navigable waters. Same.
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.S. sheets. (T-607) ✓
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.S. 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. Nelson
Examined and approved B. G. Jones

Examined and approved:

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

B. B. Borden
Chief, Section of Field Work
G. H. Hilde
Chief, Division of
Hydrography and Topography.

REVIEW OF AIR PHOTO COMPILATION T-5176.

Comparison With Other Surveys.

Plane table survey T-6071, dated 1934, covers the South part of this area. All detail of a permanent nature ^{on T-6071} has been transferred to the compilation or was compiled and is shown on this compilation.

Comparison with the last previous topographic surveys T-2164, dated 1894, T-2165, dated 1894, and T-3854m dated 1921, shows that the compilation is complete and adequate to supersede these older surveys for the area covered.

Comparison with Chart 470 shows the following differences which have not been discussed in the descriptive report.

1. In the Ashely River the small islands shown as Sisters Islands are not shown on the compilation and do not show in the photographs. These islands are not shown on plane table survey T-6071. They are shown on H-5449 as "Shoals, bare^d low water".
2. Likewise the West Marsh islands are considerably changed. The compilation has been checked against the photographs and is accepted as correct.
3. The development of streets in North Charleston and buildings of the Naval Hospital have not been completed as shown on Chart 470. The compilation has been checked against the photographs and shows this detail correctly.

Topographic Stations.

The following recoverable topographic stations are shown on this compilation and the descriptions are filed under T-6071: Black Stack. (d)

B. G. Jones
B. G. Jones.

Survey No. _____

Chart No. 1239 470

Date, _____

Diagram No. _____

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

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>North Charleston</u>	Same			
	<u>Clouter Creek</u>				
	<u>Cooper River</u>				
	<u>Noisette Creek</u>				
	<u>U.S. Naval Reservation</u>				
	<u>Navy Yard</u>				
	Seven Mile House	<u>Sevenmile House</u>			
	Six Mile House	<u>Sixmile House</u>			
	<u>Navy Yard Airport</u>				
	<u>Kingsbury</u>				
	<u>Murray Hill</u>				
	<u>Brickyard Creek</u>				
	<u>Accabee Flats</u>				
	<u>Accabee Creek</u>				
	<u>East Marsh Island</u>				
	<u>Ashley River</u>				
	<u>Duck Island</u>				
	Five Mile House	<u>Fivemile House</u>			
		APPROVED NAMES UNDERLINED IN RED H.L. Flesher			

Descriptive Report T 5176 Supplemental
Filed 11/31/37

1. Name corrections as per name standards

2. Corrections in red from chart letter 611, 1937
by Ben H. Regg

3. Corrections in blue from chart letter 682 (1934)
This letter had not previously come to the
attention of this unit. Buildings and tracks
in navy yard to be removed
Corrections and ~~map~~ new printing
ordered 11/31/37

BG Jones