

5173

U. S. COAST & GEODETIC SURVEY
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Form 504
Ed. June, 1928
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State: South Carolina

DESCRIPTIVE REPORT

Air Topographic } Field 21
Photo Hydrographic } Sheet No. Reg. No. 5173

LOCALITY

Charleston Harbor and Vicinity

Goose Creek and Vicinity

1934

CHIEF OF PARTY

E. H. Kirsch

U. S. GOVERNMENT PRINTING OFFICE: 1920

DECLASSIFICATION BY NOAA
PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
3.3 (a), EXECUTIVE ORDER 12356

E.H.K.

SHEET NO. 21
REG. NO. 5173

PHOTOS NO.
M-157 to M-162 - 823A-8
M-130 to M-134 - 823A-8

DATED
December 21, 1933
December 21, 1933

TIME
1:15 P.M.
1:40 P.M.

PROJECTION BY

L. C. Ripley
L. C. Ripley

2-10-34

PROJECTION CHECKED BY

J. H. Wulbern
J. H. Wulbern

2-10-34

CONTROL PLOTTED BY

M. L. Smith
M. L. Smith

2-10-34

CONTROL CHECKED BY

W. W. Johnson
W. W. Johnson

4-26-34

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

W. W. Johnson
W. W. Johnson

4-26-34

TOPOGRAPHY CHECKED BY

E. J. Anderson
E. J. Anderson

4-26-34

SMOOTH RADIAL LINE PLOT BY

E. J. Anderson
E. J. Anderson

RADIAL PLOT CHECKED BY

E. H. Kirsch
E. H. Kirsch

SCALE PLOT BY

J. H. Wulbern
J. H. Wulbern

DETAIL INKED BY

W. W. Johnson
W. W. Johnson

4-26-34

AREA COVERED BY SHEET: 14.5 Square Statute Miles.

LENGTH OF SHORELINE: 2.3 Statute Miles, (More than 200 meters from nearest opposite shore)

LENGTH OF STREAMS: 21.9 St. Miles (Rivers and sloughs less than 200 meters wide)

LENGTH OF COASTLINE: None.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5173

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. 21

REGISTER NO. 5173 5173

State South Carolina

General locality Charleston Harbor and Vicinity

Locality Goose Creek and Vicinity

Photographs - 12-21-33

Scale 1:10,000 Date of survey, 19

Compilation - 4-26-34

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 W. W. Johnson

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

Aids for the compilation of this sheet were obtained from notes on the field pictures. Lt. B. H. Riggs' general field inspection report,* field inspection by the compiler, and information shown on A.C.S. "V" Reg. No. 6084, B. H. Rigg, Chief of Party, 1934.

Air Photo sheet No.21, Reg. No. 5173 was compiled from photographs taken with a U.S.Army Corps' Single Lens Camera.

* For Lt. Riggs' report, see Desc. Report for T-5153.

CONTROL

Sources:

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

Triangulation by G. D. Cowie and R. L. Shoppe - 1933, and by C. D. Meaney 1932.

Aluminum control sheet "V" Reg. No. 6084, Lt. B. H. Rigg, Chief of Party 1934. The primary purpose of the A.C.S. was to establish additional control for the Air Photo Sheet. The distances were taped and azimuth was carried with the alidade. The points located on the A.C.S. were also spotted on the photographs in the field. These points are not shown on the finished compilation.

Errors:

No errors were found in the control.

Discrepancies:

There were no control stations established by other organizations.

COMPILATION

Method:

The usual radial line method of plotting as described in the U.S.C. & G.S. "Notes on the Compilation of Planimetric Line Maps from 5-Lens Aerial Photographs - 1933 Edition". There were no departures from this method.

Adjustment of Plot:

No unusual adjustments were required in the radial plot. The photographs were free of excessive tilt and scale fluctuations.

Names Only one new name was submitted on this compilation, Yeaman's Hall. No report was made on this name but it has been retained pending Mr. Bacon's decision.

B. G. J.

Comparison with other surveys: Topographic surveys T 2163 and T 2164 (1894) cover a small part of this area along the Cooper River. Comparison shows that the compilation is detailed and adequate to supersede these older surveys for the area covered.

The remainder of this area is not covered by other topographic surveys of this Bureau.

B. G. J.

Accuracy The value of 3 to 5 meters given on the opposite page is high for work on this scale. A better estimate is an accuracy of location of 3 to 5 meters for intersected points and 5 to 10 meters for other detail.

B. G. Jones

Interpretation:

Only the graphic symbols approved by the Board of Surveys and Maps - 1932 were used.

Difficulty was experienced in locating houses in heavily wooded areas. Since this sheet is comprised of about 40 or 50 per cent woods, some of the houses were of necessity omitted.

Difficulty was also experienced in differentiating between some of the roads and railroads. However, this question was settled by personal field inspection.

Information from other sources:

The information concerning the Seaboard Air Line R.R. trestle crossing Goose Creek was obtained from Lt. M. O. Witherbees' Party.

This trestle is of the wooden bent, fixed - span type having a clearance of 14' at mean high water. *W.S. Engineers, List of Bridges for 1927 gives this clearance as 17 Ft above High water*

Conflicting Names:

There are no cases of conflicting names. ✓

See opposite Page.

COMPARISON WITH OTHER SURVEYS:

Satisfactory junctions were made with Sheet No. 24, Reg. No. 5176 on the South; Sheet No. 20, Reg. No. 5172 on the East; and Sheet No. 9 Reg. No. 5161 joins this sheet on the North and West. *See opposite page.*

Landmarks:

A list of landmarks for charts has been submitted with Whatmans Sheet "D" Reg. No. . This sheet was first used as a topographic sheet and then as a boat sheet. The hydrographic sheet #5 Field No. 3, Reg. No. 5448.

Recommendations for Further Surveys:

The compilation of this sheet is believed to have a probable error of not more than 3 meters in position of well defined detail of importance for charting and of 5 meters for other data.

See opposite page.

Remarks:

The small black circles along Goose Creek and tributaries are hydrographic signals, field spotted by Lt. M. O. Witherbee's Party

There is a line of dolphins shown on this sheet near Port Terminal dock that are not shown on Chart No. 470.

A R.R. dock in bad conditon is shown on this sheet near the South corner of Port Terminal dock that does not appear on Chart No. 470.

(1934). The two in Cooper River, near the Port Terminals, are ~~lights~~ ~~beacons~~ located by the radial plot.

The fenced-in area (Lat. $32^{\circ} 54'$, Long. $79^{\circ} 58'$) is the U. S. Government Arsenal.

Assisted by:

E. H. Kirsch

E. H. Kirsch,
Chief of Party.

Submitted by:

W. W. Johnson

W. W. Johnson.

REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO.

Title (Par. 56) Goose Creek and Vicinity.

Chief of Party E. H. Kirsch

Compiled by W. W. Johnson

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, coral reefs~~ and ~~reefs~~, 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.S. Sheets~~
None submitted. 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.S. Sheets~~
None submitted. Lam.
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:

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
B.G. Jones

Examined and approved:

K.T. Adams
Chief, Section of Field Records

L.O. Pollock
Chief, Division of Charts

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

Survey No. T 5173

Date, Feb. 27, 1935.

Chart No. 1239

935
Diagram No. 1239 - 2

Names underlined in red approved Mar 13, 1935 ^{Diagram N}
 Hurlow-Bacon
 Approved by the Division of Geographic Names, Department of Interior. *

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

Under investigation. Q

(M-136)

Topography added to drawing of chart # 470

March 28, 1935 g.H.S.

Applied to chart 1239 Apr. 1937 Z.M.A.

Shoreline and marsh limits applied to Cht. 680

Jan. 28, 1942 K.K.