

4856

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

AUG 20 1934

Acc. No.

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

DESCRIPTIVE REPORT

Topographic } Sheet No. 0 4856
~~Hydrographic~~

State South Carolina

LOCALITY

Charleston

Folly Island and Vicinity

1934

CHIEF OF PARTY

M.O. Witherbee

U. S. GOVERNMENT PRINTING OFFICE: 1934

4856

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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REG. NO. 4856

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. 3. Vicinity of Folly Island

REGISTER NO. 4856

State South Carolina

General locality Charleston, S.C.

Locality Folly Island and Vicinity

Scale 1:10,000 Date of survey February-March, 1934

Vessel Shore Party #2 Project H-T 155

Chief of party M.O. Witherbee

Surveyed by Oscar Mulford

Inked by Oscar Mulford

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated November 2, 1933.

Remarks: For location of hydrographic signals

and control points for air photos. See

Descriptive Report of photo sheet reg.

No. 5184.

DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEET O

Instructions dated Nov.2,1933.

a The primary purpose of this sheet was to locate a section of the Atlantic coast line from a point about 800meters south of Cummings Point southerly along the ocean to within a few hundred meters of Stono Inlet. The shore line is of sand with low sand dunes 10 to 60 meters in from high water line.

Hydrographic signals were also located on the interior section of sheet.

b Landmarks,

Charleston Light House.

Radio Tower.

Pavillion Roof.

~~Windmill (Folly Bridge)~~

White Tank.

c The control used on this sheet was of third order triangulation.

dd Ran a traverse of about $2\frac{1}{4}$ miles, beginning at a point about 800meters southerly of station "Cummings" running southerly along the ocean, locating the high water and dune lines, to Charleston Light House with no error.

A traverse from Charleston Light House southerly along the shore of the ocean to Station "Mid" reference mark # 1, about $1\frac{1}{2}$ miles in length checked with no error. High water and dune lines were also located on this traverse and some hydrographic signals were cut in.

A traverse from "Mid" reference mark #1 southerly along the ocean for about $4\frac{1}{2}$ miles to within a few hundred meters of Stono Inlet, was in error 9 meters for distance and 5 meters in azimuth, this error was adjusted proportionately. Dune and high water lines, hydrographic signals, bulkheads and buildings were located in this traverse.

This aforementioned traverse terminated at a point about 600 meters southeasterly of sta. Bruce, said point having been established by AM. Weber by running from sta. Bruce on the topographic sheet adjoining to south.

A 100 meter stranded wire chain was used on these traverses to control distance.

A short traverse was run from Folly Bridge Windmill southeasterly along Folly Road to check position of the northeasterly corner of Pavillion, but the planetable location of same and the position as determined by the radial plot of the aerial photographs shows a discrepency of 8 meters.

e The hydrographic signals on the interior section of sheet were cut in by at least three cuts from triangulation stations. The hydrographic signals landmarks, buildings and bulkheads were located by cuts and direct shots with rod readings from traverse points.

f No form lines.

g No revision work.

DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEET O

Instructions dated Nov.2,1933.

h Due to irregular distortion of sheet and in some cases the indefiniteness of the high water line the location of some interior shore lines of creeks will not conform with the location by aerial photography.

There is a discrepancy of 6 meters in the location of the northeasterly corner of Folly Beach Pavillion between the plane table position and the position determined by the radial plot of the aerial photographs.

i No deviation from standard procedure.

j This sheet joins topographic "A" on the north and an aluminum topographic sheet "H" by A.M.WEBER on the south.

The point established by A.M.Weber and transferred to this sheet was held as correct thus letting the error fall on this (a Whatman) sheet. (Refer to paragraph d).

k No new names.

l Recoverable positions furnished on form #524.

m Aerial photographs have been ^{reduced} of this area.

n No changes in coast line.

o Marshes were of grass covered mud often covered at high tide.

My experience with this sheet indicates that control points for aerial photography cannot be located with sufficient accuracy on an unseasoned Whatman sheet.

Respectfully submitted,
Oscar Mulford.
Topographer.

Oscar Mulford

Forwarded:

M.O. Witherbee
M.O. Witherbee,
Chief of Party.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

Sheet "0"

LANDMARKS FOR CHARTS

Charleston, S.C.

July 25, 1934

DIRECTOR, U.S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward, from the description given below, and should be charted:

Bentley H. Rice
Chief of Party

| DESCRIPTION | POSITION | | | | | | METHOD OF DETERMINATION | CHARTS AFFECTED | |
|---|----------|----|-------------|-----------|----|-------------|-------------------------|-----------------|-------|
| | LATITUDE | | | LONGITUDE | | | | | DATUM |
| | ° | ' | D.M. METERS | ° | ' | D.P. METERS | | | |
| CHARLESTON LIGHT HOUSE 1-2 | 32 | 41 | 1313.9 | 79 | 53 | 45.7 | N.A. 1927 | Triang. 1849 | 1239 |
| AVILION, Sea-ward hip of | | | (1380.6) | | | (993.2) | | Plane- | |
| of 1 | 32 | 39 | 467.7 | 79 | 56 | 570.5 | " | table | " |
| ANK, low, flat topped, | | | (1362.0) | | | (821.3) | | | |
| od 1 | 32 | 39 | 486.3 | 79 | 56 | 742.4 | " | " | " |
| †Selected because of par. 2 at foot of page. | | | | | | | | | |
| The positions have been re-plotted on the original topographic sheet and found to be correct. | | | | | | | | | |
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A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Sheet "0"

LANDMARKS FOR CHARTS

Charleston, S.C.

July 25 _____, 193 4

DIRECTOR, U.S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

Den isgilt 1.8.1965

Chief of Party.

[illegible]

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

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