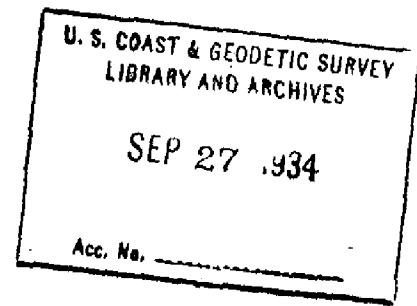


6106



Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
R. S. Patton, Director

State: South Carolina

**DESCRIPTIVE REPORT**

Topographic } Sheet No. S  
Hydrographic }

**LOCALITY**

Edisto Island.

South Edisto River

1934

CHIEF OF PARTY  
*R. S. Patton*

6106

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

SEP 27 1934

REG. NO.

Acc. 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. S

REGISTER NO.

State South Carolina

General locality Edisto Island

Locality South Edisto River

Scale 1-10,000 Date of survey June, 19 34

Vessel Party No. 19

Chief of party Lt. Benjamin H. Rigg

Surveyed by Addison S. Hall

Inked by Addison S. Hall

Heights in feet above \_\_\_\_\_ to ground to tops of trees

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated October 10, 19 33

Remarks: \_\_\_\_\_

## OUTLINE

1. INSTRUCTIONS.
2. SCOPE OF SURVEY.
  - A. Hydrographic Control
  - B. Location of Aids to Navigation
  - C. Shoreline location as check on photographs
  - D. Recovery of U.S.E.D. Stations
  - E. Permanent Marking of Hydro Stations
3. LIMITS OF SHEET.
4. CONTROL.
5. SURVEYING METHODS USED.
6. DESCRIPTION OF TERRITORY.
7. NEW NAMES.
8. LANDMARKS.
9. HYDROGRAPHIC STATIONS PERMANENTLY MARKED.
  - A. U.S.E.D. Stations.
  - B. Hydrographic Stations.
10. FIELD INSPECTION.
11. AIDS TO NAVIGATION LOCATED BY TOPOGRAPHY.

DESCRIPTIVE REPORT TO ACCOMPANY  
ALUMINUM MOUNTED CONTROL SHEET "S"

INSTRUCTIONS

The survey was carried out under Original Instructions dated October 10, 1933, also Director's letters 22MG 1990 (19), 26AHH 293, and Circular letter No. 30.

SCOPE OF SURVEY

The purpose of the survey was to establish hydrographic control, to locate all aids to navigation, to locate shoreline at important places as a check on the photographic work, to recover U.S. Army Engineer's stations, and to permanently mark hydrographic stations at strategic points.

LIMITS OF SHEET

The topography includes the South Edisto River from lat.  $32^{\circ} 35.3'$ , long.  $80^{\circ} 23.5'$  south to lat.  $32^{\circ} 31.5'$ , long.  $80^{\circ} 22.5'$ . Fenwick Cut falls in the southwest corner of the sheet.

CONTROL

Control was from triangulation executed in 1933. The following stations were used as control on this sheet:

I. Main Scheme

Scan 1933  
Rac 1933  
Dodge 1933  
Fenwick 1933

II. Intersection Stations

U.S.E.D. II 1933  
" III 1933

Fenwick Cut Beacon, cut in in 1933, has been moved. A recovery card was submitted on this station.

#### SURVEYING METHODS USED

Graphic triangulation was used in locating all signals. No traverses were run. The shoreline on the west bank of the South Edisto River had been missed in the single lens flight of aerial photographs. This shoreline consisted of a smooth, regular curve. It was located by putting up a series of flags about 200 m. apart on the high water line, and cutting them in from three setups. The first setup was 63 meters east of triangulation station Dodge on range with station Rac, the second on station Cow, and the third was a three point fix on the south bank of Fenwick Cut. Seven and one-half miles of shoreline were put in and checked with the celluloid sheets.

#### DESCRIPTION OF TERRITORY

The South Edisto River gradually broadens to a width of from a quarter of a mile to one half mile as it approaches the sea, continuing the series of relatively straight reaches noted in the Descriptive Report on sheet "R". Marsh extends back from the river for varying distances up to a mile. The higher ground beyond the marsh is partly wooded, with pine predominating. Only two or three houses may be seen from the river. A dock, in excellent condition, is located on the west bank of the river about a mile above Fenwick Cut.

#### NEW NAMES

All names on the present charts pertaining to the area covered by this sheet are correct. No new names should be added.

#### LANDMARKS

A large white house on the east bank of the river about  $2\frac{1}{2}$  miles south of Watts Cut is a prominent object when approaching Watts Cut from the south. It should be plotted as a landmark on the chart. Charts affected are Charts Nos. 1239 and 3256.

HYDROGRAPHIC STATIONS PERMANENTLY MARKED

A. U.S.E.D. Stations:

Only one U.S.E.D. Station not cut in by triangulation, U.S.E.D. 1, fell within the limits of sheet "S". This station was not recovered. U.S.E.D. Stations 2 and 3, Fenwick Cut, cut in by triangulation in 1933 were recovered.

B. Hydrographic Stations:

One hydrographic station, station Cow, was permanently marked with a standard hydrographic station marker. A description of this station on form No. 524 accompanies the sheet.

Fenwick Cut Beacon, which had been moved since it was cut in by triangulation in 1933, was relocated by topography. A description of this station on form No. 524 accompanies the sheet.

Station Cow was permanently marked with an 8' length of  $3\frac{1}{2}$ " boiler pipe driven into the marsh. A description of this station on form No. 524 accompanies the sheet.

FIELD INSPECTION

The requirements stated on page 30 of the "Notes on Compilation of Planimetric Line Maps" have been complied with as noted in the Descriptive Report accompanying sheet "K" Seven and one-half statute miles of shoreline were run and checked with the celluloid sheets.

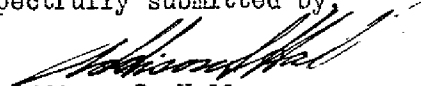
AIDS TO NAVIGATION LOCATED BY TOPOGRAPHY

Name	Lat.	Long.
Beacon No. 4	32° 35' (1273.2) 575.0	80° 23' (2.0) 1562.9
" " 6	32° 34' (838.0) 1010.2	80° 23' (579.1) 986.1
" " 1	32° 34' (1766.7) 81.5	80° 23' (1172.2) 393.0
" " 8	32° 33' (425.2) 1423.0	80° 23' (284.0) 1281.4
" " 10	32° 33' (463.9) 1384.3	80° 24' (956.7) 608.7

Name	Lat.	Long.
	(1695.2)	(1068.0)
Beacon No. 12	32° 33' 153.0	80° 25' 497.4
Fernwick Cut	(502.8)	(557.2)
Beacon	32° 32' (1345.4)	80° 24' 1008.0

No Ranges fell on this sheet.

Respectfully submitted by,

  
Addison S. Hall

Forwarded by,

  
Benjamin H. Pigg  
Chief Engineer  
U. S. G. Engineer



DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY

Sheet "S"

## LANDMARKS FOR CHARTS

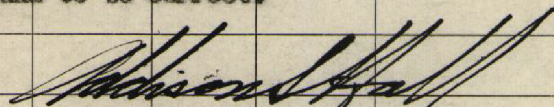
Charleston, S. C.July 25, 193 34

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:

Benjamin H. Rigg,

Chief of Party.

DESCRIPTION	POSITION						METHOD OF DETERMINATION	CHARTS AFFECTED	
	LATITUDE			LONGITUDE					DATUM
	°	'	D.M. METERS	°	'	D.P. METERS			
Beacon No. 4	2	32	35	(1273.2) 575.0	80	23	(2.0) 1562.9	N.A. Planetable 1927	1239 & 3256
Beacon No. 8	2	32	33	(425.2) 1423.0	80	23	(284.0) 1261.4	" "	" "
Beacon No. 1	2	32	34	(1766.7) 81.5	80	23	(1172.2) 393.0	" "	" "
Beacon No. 6	2	32	34	(838.0) 1010.2	80	23	(579.1) 986.1	" "	" "
Beacon No. 10	2	32	33	(463.9) 1384.3	80	24	(956.7) 608.7	" "	" "
Beacon No. 12	2	32	33	(1695.2) 153.0	80	25	(1068.0) 497.4	" "	" "
Ferwich Cut Beacon	2	32	32	(1345.4) 503.0	80	24	(557.2) 1008.0	" "	" "
These positions have been re-plotted on the original topographic sheet and found to be correct.									
									

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, flagstuffs and like objects are not sufficiently permanent to chart.



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## 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:

Lt. Benjamin H. Rice.

*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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