

4434

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Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
E. Lester Jones, Director

U. S. & C. SURVEY

L. & A.

JUL 8 1929

Acc. No.

State: South Carolina

DESCRIPTIVE REPORT

Topographic

~~Hydrographic~~

Sheet No. C 4434

LOCALITY

Cooper River

Vicinity of Charleston

1928

CHIEF OF PARTY

R. F. A. Studds

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET

- "C" -

August, September, 1928

Cooper River, Vicinity of Charleston, SC.

Launch ELSIE

R.F.A. Studds, In Charge.

Instructions dated December 17, 1927, June 20, 1928.

INTRODUCTION:

This is the first of three topographic sheets, on a scale of 1:10,000, covering a survey of the Cooper River. The sheets begin at a junction with original Topographic Sheet 2162 in Latitude  $32^{\circ} 55'$  and extend to the Seaboard Air Line Railroad bridge in the West Branch of Cooper River and to Quimby Creek in the East Branch of Cooper River.

This sheet covers the portion of the river lying between Woods Point in Latitude  $32^{\circ} 55'$ , and Moreland, in Latitude  $33^{\circ} 00'$ , and includes Back River and the sloughs and reaches bordering Cooper River.

SURVEY METHODS:

Control was furnished by a scheme of triangulation extended up the Cooper River from the line Field - Goose Creek. Small signals for the control of the hydrographic survey, were cut in by theodolite angles and plotted directly on the topographic and hydrographic sheets.

Paragraph 6, Supplemental Instructions, 10-LE, dated June 20, 1928, suggested sketching in the shoreline from the hydrographic launch, between points located in the above manner. This did not prove practical, however, and the entire shoreline of the Cooper River and of Back River was surveyed, using the planetable and stadia method. The shoreline of creeks, reaches, sloughs, etc., tributary to the river, was not surveyed, because of its unimportance. This shoreline was sketched in by the party on the hydrographic launch and is shown on the smooth hydrographic sheet only.

COMPARISON WITH PREVIOUS SURVEYS:

A good connection was made on the southern limit of the sheet, with the survey shown on original topographic sheet 2162. This latter sheet is the limit of surveys previously made by this bureau. There is a survey by the U. S. Geological Survey in 1918, of the area

covered by the present survey. This is shown on the Quadrangle, "Melgrove". It was intended to use this survey for the land area, and enlargements on a scale of 1:10,000 were made for that purpose. On verifying the shoreline transferred to this sheet, however, such a disagreement was found that it was necessary to rerun the entire shoreline. The shoreline transferred from the Geological Survey maps is shown on the topographic sheet by a pencil line.

GENERAL DESCRIPTION AND NAMES:

The topographic features, such as marsh line, trees, etc., are as shown on the Geological Survey Quadrangle, "Melgrove". No effort was made to verify the limits of these, except by inspection, as it is believed they are sufficiently accurate for charting purposes.

WOODS POINT and SNOW POINT are rather prominent wooded points. RED BANK LANDING is not in use and nothing shows from the river to identify it. MORELAND is a small landing built up of earth and bricks, which small boats occasionally tie up to in order to load firewood for shipment to Charleston.

All names of creeks, etc., except WOODS POINT, SNOW POINT, and MORELAND are given on the Geological Survey Map and seem to be names in general use. The three names mentioned were obtained from pilots familiar with the river and are believed to be reliable.

There are no objects on this sheet which can be used as landmarks. The two small sheds shown near triangulation station "Bushy" are prominent because of the absence of any others.

Three piles shown to lie just southeast of the entrance to Back River are used to moor boats waiting for tide.



Robert A. Earle,  
Deck Officer,  
USC&G Survey.

Forwarded:



R.F.A. Studds,  
Chief of Party,  
USC&G Survey.

TOPOGRAPHIC SHEET

"C"


STATEMENT OF CHIEF OF PARTY

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This sheet has been inspected and is approved.

It is noted, upon comparison of the shoreline as surveyed on this sheet, with the shoreline as transferred from the Geological Survey Quadrangle "Melgrove", that the two surveys disagree. This disagreement is not always at a place where erosion or accretion is liable to have occurred. Neither is the disagreement of a uniform difference. It is therefore, believed that the shoreline on the Geological Survey maps has been erroneously located.

In compiling a chart of this area, it is recommended that the shoreline on this sheet be accepted and the adjacent topography transferred from the Geological Survey maps. In regard to this latter, it is suggested that the topography be adjusted by holding the inner limit of the topographic feature, such as marsh, woods, etc., rigid and extending or retracting it at the river edge, as the condition might be.

  
R.F.A. Studds,  
Chief of Party,  
USC&G Survey.

DEPARTMENT OF COMMERCE

AND REFER TO No. 11-DRM

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 25, 1930.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4434

Cooper River, Woods Pt. to Moreland, South Carolina

Surveyed in 1928

Instructions dated Dec. 17, 1927 and June 20, 1928 (Studds)

Chief of Party, R. F. A. Studds.

Surveyed and inked by R. A. Earle.

1. The plan and character of the survey and records conform to instructions in the Topographic Manual.
2. The survey complies with the specific instructions, and the junctions with the adjoining surveys are adequate.
3. The name Woods Pt. appears to be too far north. It probably is applicable to the point at  $32^{\circ} 55'$ . It is not shown on the Geological Survey map and there is no information in the office to indicate the exact location of the point.
4. The survey fully complies with the instructions, in fact exceeds them. Nevertheless it would have conformed to standard practice if the plane table survey had been carried through the tributaries, instead of depending on sketching with sextant control by the hydrographic party, as was done.
5. Reviewed by E. P. Ellis, April, 1930.

Approved:

*C. H. Green*

Chief, Section of Field Records (Charts)

*F. B. Borden*

Chief, Section of Field Work (H. & T.)

*L. O. Colburn*  
Chief, Division of Charts

*G. H. Rude*  
Chief, Div. of Hyd'y and Top'y

DEPARTMENT OF COMMERCE

AND REFER TO NO. **11-288**

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 25, 1930.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4434

Cooper River, Woods Pt. to Moreland, South Carolina

Surveyed in 1928

Instructions dated Dec. 17, 1927 and June 20, 1928 (Studds)

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Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.  
4434

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. C

REGISTER NO. **4434**

State SOUTH CAROLINA

General locality ~~VICINITY OF CHARLESTON~~

Locality COOPER RIVER-Woods Pt. to Moreland

Scale 1:10,000 Date of survey August, September, 1928

Vessel Launch ELSIE

Chief of Party R.F.A. Studds

Surveyed by Robert A. Earle

Inked by Robert A. Earle

Heights in feet above -- to ground to tops of trees

Contour, Approximate contour, Form line interval -- feet

Instructions dated December 17, 1927; June 20, 1928

Remarks: Sheet one of three sheets of the Cooper River.