

5720

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

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 7 5720  
Hydrographic }

State South Carolina

LOCALITY

Combahee River

Upper Combahee River - North

Wimbee Creek and Schooner Channel

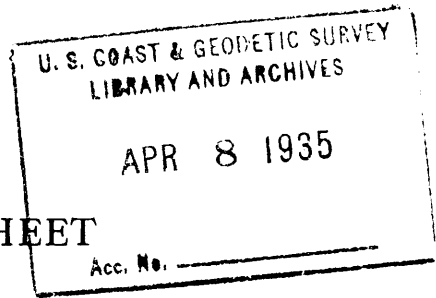
1934

CHIEF OF PARTY

R. P. Eymann

5720

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY



REG. NO.

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 7

REGISTER NO. 5720

State South Carolina

General locality Combahee River  
~~Inland Waterway - Charleston - Savannah.~~

Locality Upper Combahee River, North Wimbee Creek and Schooner Channel

Scale 1-10,000 Date of survey May - June, 1934

Vessel Motor sailer, "V-602."

Chief of Party Raymond P. Eyman

Surveyed by Geo. H. Everett.

Protracted by L. B. White, Jr.

Soundings penciled by L. B. White, Jr.

Soundings in ~~655666~~ feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by \_\_\_\_\_

Inked by E. S. Cotton

Verified by E. S. Cotton

Instructions dated November 2., 19 33

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

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC

SHEET # 7 (Field number).

(a.) DATE OF INSTRUCTIONS, SCALE, AND LIMITS.

Authority for this work was contained in Instructions dated Nov. 2, 1933, Project HT - 159. The scale is 1 - 10,000 and the limits are from lat.  $32^{\circ} 33'$  to  $32^{\circ} 39'$  and long.  $80^{\circ} 37\frac{1}{2}'$  to  $80^{\circ} 41'$ . The sheet contains the upper reaches of North Winbee Creek to the S. A. L. railroad bridge, Scheener Channel, and the Gambahee River from the S. A. L. bridge to the highway bridge.

The work joins sheet #6 on the south and no further work was done northward of the limits of this sheet.

(b.) SURVEY METHODS.

The usual methods of sounding from a small boat were employed, using 3 point fixes and leadline or pole for soundings.

(c.) DISCREPANCIES.

Due to strong currents and masses of floating grass, the speed of the sounding boat shows considerable variation in places.

No shoreline was available when the work was done and the sounding party attempted to space lines to the best advantage through the channels, following the bends and taking fixes whenever available.

(d.) DANGERS.

The southern limit of North Winbee Creek is blocked with shoals and shell bars leaving only  $1\frac{1}{2}$  to 2 feet available.

(e.) CHANNELS.

16 feet may be carried up to the Gambahee by following mid stream and the ebb tide bends. 8 feet may be carried through Scheener Channel (from Bull River through the eastern branches of Williman Creek) into North Winbee Creek and thence to the S. A. L. bridge.

(f.) ANCHORAGES.

There are no anchorages except for small boats as the swinging room is very limited.

(g.) COMPARISON WITH PREVIOUS SURVEYS.

No previous work is shown for this area.

(h.) WIRE DRAG.

No wire drag work was done.

(i.) GEOGRAPHIC NAMES.

Names shown are from Geological Survey maps.

(j.) STATISTICS. (a table of statistics accompanies this report.)

(k.) TIDES AND CURRENTS.

Tide gages were established at the highway bridge over the Combahee, at Field's Point on the Combahee and at the dock in Bull River ( $\Delta$  Horse).

Currents run very strong throughout, ebb setting to the southward.

(l.) LANDMARKS.

There are no landmarks worth charting, except of course the bridges over the rivers, the most prominent being the highway bridge.

A brick chimney (the remains of a burned house) stands near the bank of the Combahee about  $1\frac{1}{2}$  miles southward of the highway that is fairly prominent over a small area only.

There are no aids to navigation.

Respectfully submitted,

*Raymond P. Egan,*  
*Chief of Party.*

STATISTICS SHEET NO. 7.

Day	Date	Boat	Vol.	Miles	Soundings	Position
a.	5-30-34	V-602	1	11.6	492	79
b.	5-31-34	V-602	1	16.6	530	101
c.	6-1-34	V-602	(1	18.0	730	202
			(2	2.0	58	17
d.	<i>(Green)</i> 6-6-34	M. S.	2	11.7	512	114
e.		M. S.	2	9.9	442	125
f.		M. S.	(2	9.9	449	124
			(3	3.1	135	39
<hr/>						
6		2	5	82.8	3368 <sup>4</sup>	801

Sq. miles (statute ) of sounding equal 1.4

REPORT OF DRAFTING SECTION TO ACCOMPANY  
HYDROGRAPHIC SHEET NO. 7 - EYMAN

LOCATION - Lat.  $32^{\circ} 33'$  to  $32^{\circ} 39'$ , long  $80^{\circ} 38'$  to  $80^{\circ} 41'$ . Combahee River, North Wimbee Creek, and Schooner Channel.

AUTHORITY - Orders dated November 2, 1933.

FIELD WORK - This area was surveyed by the party of R. P. Eyman based at Beaufort, S. C.

RECORDS - The following field records were forwarded to the party of B. H. Rigg at Charleston to be completed by the drafting section:  
Boat sheet, 3 sounding volumes, and tide marigrams.

WORK ACCOMPLISHED BY THIS PARTY - Smooth sheet projection, plotted signals, reduced tidal data, protracted positions, penciled soundings, and applied shoreline and geographic names.

DISCREPANCIES - The previous experience of this party has been that it was good practice to ink shoreline on smooth sheets before the smooth plotting was done, especially since we have had very good compilations and at the time had men available to put on shoreline. This was done on this sheet, but due to bad pictures there were errors in the compilation. In order to improve the appearance of the finished sheet it was decided to discard the original sheet and make a new one. This was done by placing the old sheet over a new sheet of watmans paper and pricking through all projection, signals, and positions. All signals were compared with tracings of topo sheets and old smooth sheet. All positions were compared with tracing of old smooth sheet. The shoreline was taken from the corrected compilation.

Lat.  $32^{\circ} 34.3'$ , long.  $80^{\circ} 38.5'$ .

On south bank of Schooner channel between signals AX and TIN there are several deep soundings falling inside of shoal soundings. In all cases the shoal soundings were plotted. It is recommended that the shoal soundings be charted as shown.

In general both soundings were plotted by ver. fier.

Combahee River - The spacing is generally bad, especially at the bends of the river. This is probably due to the current.

DANGERS - Lat. 32° 34.3', long. 80° 39.6' - Location of wreck that bares two feet at low water.

CHANNELS - North Wimbee Creek does not have but two feet of water at the southern limit of the sheet.

From the eastern limit of Hydrography in Schooner Channel to the limit of hydrography in North Wimbee Creek there is a controlling depth of 8' found at their junction.

In Combahee River from the Seaboard Air Line Bridge north to the limit of hydrography, 16<sup>15</sup>' may be carried near center of the stream, except at bends the deepest water is found near the shore opposite the point.

COMPARISON WITH PREVIOUS SURVEYS - No previous surveys.

TIDES - A separate report on tidal data for this area is included with report on sheet No. 6. All tide gauges and tide zones are shown on smooth sheet. Tide curves for reducers are forwarded with sounding volume No. 1 of sheet 6.

STATISTICS -

Vol. No.	Miles	No. of Sound.	No. of Pos.
1	46.2	1752	382
2	33.5	1441	380
3	3.1	135	39
	82.8	3328	791
		4	80

Positions Protracted by L. B. White, Jr.  
Soundings penciled by " " "

Respectfully,

*Benjamin H. Rigg*  
Lt. Benjamin H. Rigg,  
Chief of Party.

NO. 12 SHEET FIELD NO. 7

1. Is Field No. shown in ink on back? ✓
2. Is location (lat. & long. sounds in nature) 1807 dates of use triangulation stations shown? ✓
3. Is all stereoline inked? ✓
4. Has a list of type A hydro signals been prepared and posted in Vol. 1 of the standing record? ✓
5. Have the dates of establishment of triangulation stations been shown? ✓
6. Have all positions been plotted? ✓
7. Have all soundings been plotted? ✓
8. Have characteristics of the bottom been plotted? ✓
9. Have all bad crossings been noted and listed? ✓
10. Have depth curves been drawn? *none*
11. Have all dangers been noted by arrows and described? ✓
12. Have all existing landmarks been shown & described? ✓
13. Have the names of Lakes, Rivers, Banks, etc., been shown? *Rivers only*
14. Have ranges been shown or directed in S.P. No. 11521, Par. 1608? ✓
15. Have current & tide stations been plotted with limits of controlling gauges shown? ✓
16. Have the limits of work on adjacent sheets been shown, and junctions and curves checked? ✓
17. Have all buoys been plotted and indicated by arrows? ✓
18. Is there any more hydrography that should be done on this sheet? *NO*
19. Has stamp No. 25 been placed on sheet? ✓
20. Has a comparison with chart for differences and depths been made? Curves to be checked by Chief of Party.

*[Handwritten Signature]*

---



April 24, 1935.

FE

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. E. P. Ellis

Tide Reducers are approved in  
3 volumes of sounding records for

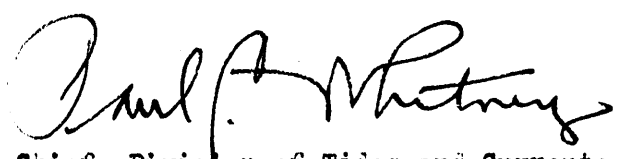
HYDROGRAPHIC SHEET 5720

Locality Upper Combahee River - North Wimbee Creek and Schooner Channel, S. C.

Chief of Party: R. P. Eymann in 1934  
Plane of reference is mean low water reading  
2.2 ft. on tide staff at Summerhouse Pt. (Horse)  
14.7 ft. below B.M. 1  
3.8 ft. on tide staff at Highway Bridge  
10.3 ft. below B.M. 1

Height of mean high water above plane of reference is 6.6 feet at  
Summerhouse Pt.; 4.4 feet at Highway Bridge.

Condition of records satisfactory except as noted below:

  
Chief, Division of Tides and Currents.



Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. 5720

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	801.
Number of positions checked	102.
Number of positions revised	13.
Number of soundings recorded	3348
Number of soundings revised	77.
Number of signals erroneously plotted or transferred	None

Date: May 27, 1935

Verification by E. R. Cotton

Review by U. D. Behr

Time: 13 days

Time: 10 1/2 hrs

## Verification of sheet H-5720

1. The records conform to the requirements of the General Instructions. ✓
2. The usual depth curves can be drawn except where the slope of the bottom near each bank of the river is so steep that there is not sufficient space to show all curves.
3. The field plotting was complete, except for the omission of all depth curves. ✓
4. It was not necessary to do over any part of the field drafting, except the revision of some positions and soundings.
5. As the contemporary adjacent sheet had not been completed,

Verification of sheet H-5720 (cont)

the junction could not be checked. ✓

6. No regular cross-lines were run. The only crossings being where two adjacent lines run together, at which points the soundings checked reasonably well. ✓

E. R. Cotton

This survey has been compared with the air photo  
Computation - T-5163

vdb.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5720 (1934) - FIELD NO. 7

Upper Combahee River, North Wimbee Creek and Schooner Channel,  
Combahee River, South Carolina  
Surveyed in May - June, 1934  
Instructions dated November 2, 1933 (NATOMA)

Hand Lead and Pole Soundings.

3 Point Fixes on Shore Signals.

Chief of Party - R. P. Eymann.  
Surveyed by - G. H. Everett.  
Protracted by - L. B. White, Jr.  
Soundings penciled by - L. B. White, Jr.  
Verified and Inked by - E. R. Cotton.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual.

The Descriptive Report is clear and comprehensive and satisfactorily covers all matters of importance.

2. Compliance with Instructions for the Project.

This survey complies with the instructions for the project.

3. Sounding Line Crossings.

No regular system of crosslines were run but those that were, as well as the adjacent lines, are in good agreement with the exception of a few cases on the south bank of Schooner Channel.

4. Depth Curves.

Within the limits of the survey the usual depth curves may be satisfactorily drawn, including portions of the low water line.

5. Junctions with Contemporary Surveys.

The junction with H-5722 (1934) on the east will be considered in the review of that survey.

6. Comparison with Prior Surveys.

a. H-1084 (1871).

This survey is the only previous survey in this area and it covers only a small portion of the present survey at the southern limits of North Wimbee Creek and is in fair agreement.

7. Comparison with Chart No. 435.

Most of the area of H-5720 was previously uncharted and that part which was charted was based on the survey discussed in the foregoing paragraph and contains no additional information that needs consideration in this review.

8. Field Plotting.

The field plotting and protracting are satisfactory and conform to the requirements of the Hydrographic Manual, except that no depth curves were drawn.

9. Additional Field Work Recommended.

This survey is complete and no additional work is required.

10. Superseding Old Surveys.

Within the area covered, the present survey supersedes the following survey for charting purposes:

H-1084 (1871) in part.

11. Reviewed by - V. D. Behn and R. L. Johnston, June 24, 1935.

Supervised by - A. L. Shalowitz.

Examined and approved:

*K. T. Adams*  
K. T. Adams,  
Asst. Chief, Division of Charts.

*R. O. Tolbert*  
Chief, Division of Charts.

*F. S. Borden*  
Chief, Section of Field Work.

*G. H. Hulse*  
Chief, Division of H. & T.

Applied to chart 794 Dec. 3, 1935 H. E. MacSwen