

5841

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

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 5
Hydrographic }

State South Carolina

LOCALITY

Waccamaw & Pee Dee Rivers

Bull Creek and Vicinity

1935

CHIEF OF PARTY

J. C. Semmons

5841
0000

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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. 5

REGISTER NO. **5841**

State South Carolina

General locality Georgetown, S. C. Waccamaw & Pee Dee Rivers

Locality ~~Waccamaw and Pee Dee Rivers~~ Bull Creek & Vicinity

Scale 1:10,000 Date of survey March, 1935

Vessel Sachem and Skiffs

Chief of Party Jack C. Sammons

Surveyed by John A. McGeehan

Protracted by P. M. Mealo

Soundings penciled by C. J. Harryman

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by - -

Inked by - -

Verified by - -

Instructions dated October 25, 1934, 19

Remarks: _____

DESCRIPTIVE REPORT TO ACCOMPANY
HYDROGRAPHIC SHEET NO. 5

1. INSTRUCTIONS: - - No specific instructions were furnished for this project, but instructions dated October 25, 1934 were considered to apply. The survey methods and limits of survey were determined by Lt. B. H. Rigg.
2. PURPOSE OF SURVEY: - - The purpose of this survey is to furnish the data for the new intracoastal waterway chart. Particular attention was paid to the development of the water which form a part of the intracoastal waterways.
3. LIMITS OF SHEET: - - This sheet joins on to sheet four at the southern limits and to sheet six at the northern limits.
4. SURVEY METHODS: - - In all of the Waccamaw River shown on this sheet the signals were located by triangulation or graphic control sheets and the hydrography was controlled by three point sextant fixes on these signals. In all of the other streams the signals were spotted on the photo-compiled shore line shown on the boat sheet and the hydrography was controlled by fixes on these spotted signals. These fixes consisted of a range finder distance and compass bearings to one of the signals. All lines are run parallel to the channel and spaced approximately 50 meters apart. Near the shore and in other areas of uneven bottom the sounding lines are more closely spaced to permit the accurate delineation of the shore line. Estimated distances to the shore line are recorded in the record books on all lines run close to the shore line. Zig-zag cross lines were run in the Waccamaw River, but no cross lines were run in the streams where the signals were spotted on the photo-compiled shoreline.
5. DISCREPANCIES: - - Considerable difficulty was experienced in obtaining accurate sextant fixes in the portion of the Waccamaw River shown on this sheet. This was due to the fact that this portion of the river is very narrow and crooked and the banks are lined with tall trees. It was always necessary to select a control station very close to the boat and the angles therefore changed very rapidly.

Dangers: - - In the shallow waters near both banks of all the streams shown on this sheet there are numerous stumps, snags, and logs, many of which are submerged.

There is a five foot shoal in the center of the channel near the junction of Big Bull Creek and the Waccamaw River. (Lat. $33^{\circ} 36.1'$; Long. $79^{\circ} 05.8'$) The best water is on the southeast side of this shoal and boats may pass close to the southeast shoreline with safety.

There is another 5 foot shoal near the center of the Waccamaw River at Lat. $33^{\circ} 36.2'$ Long. $79^{\circ} 05.5'$. Shallow draft boats may pass to either side of this shoal but the best water is to the north of it.

There is a bar making off of the west shore of the Pee Dee River in Lat. $33^{\circ} 36.6'$ Long. $79^{\circ} 09.2'$ this bar extends to the center of the channel. There is a five foot shoal in the center of the Pee Dee River in Lat. $33^{\circ} 36.6'$ Long. $79^{\circ} 09.2'$.

6. CHANNELS: - - All of the Waccamaw River shown on this sheet forms a part of the intracoastal waterway. The controlling depth of this sheet is 13 feet near signal "CHOW" (Lat. 33° 37.5'; Long. 79° 05.8').

The Pee Dee River has a controlling depth of about 19 feet from the southern limits of this sheet to the junction with Little Bull Creek and a controlling depth of about 9 feet from this junction to the northern limits of the sheet.

Little Bull Creek has a controlling depth of 3 feet. This creek has numerous logs and snags, some of which are partly submerged.

Big Bull Creek has a controlling depth of 14 feet.

7. CURRENTS: - - Strong currents with an estimated velocity of two to three knots are encountered in the upper Pee Dee River and in Big Bull Creek.

8. COMPARISON WITH PREVIOUS SURVEYS: - - There are no previous hydrographic surveys of this area.

9. GEOGRAPHIC NAMES: - - No maps of this area were available from which to obtain geographic names. A tracing of a portion of the map of Georgetown County as well as a sketch on which names obtained from Mr. Bull of Georgetown, S.C., are shown, have been forwarded to the Washington Office.

The names Waccamaw River and Pee Dee River are discussed in the report for hydrographic sheet 4.

Bull Creek as shown on U.S.C. and G.S. Chart No. 152 is called Great Bull Creek on the County Map and is often spoken of as Big Bull Creek.

Little Bull Creek is shown on U.S.C. and G.S. Chart 152 and it agrees with the County Map and with local usage as far as could be ascertained.

According to U.S.C. and G.S. Chart No. 152 Bull Island is in the Waccamaw River at the mouth of Great Bull Creek. According to the County Map the island North of Little Bull Creek between Great Bull Creek and the Pee Dee River is called Bull Island. The County Map appears to agree with local usage but no name could be obtained for the island in the Waccamaw River and it may also be called Bull Island.

The large island between the Pee Dee River and the Waccamaw River, Little Bull Creek, and Thoroughfare is called Sandy Island.

The names of the small islands in the Waccamaw River on U.S.C. and G.S. Chart No. 152 could not be confirmed, as no one with sufficient local knowledge of this area could be found.

10. LANDMARKS FOR CHARTS: - - There are no objects on this sheet sufficiently outstanding for landmarks.

Respectfully submitted,

John A. McGeehan, Surveyor.

NOTES BY CHIEF OF PARTY

The smooth sheet and all the records have been examined by the Chief of Party and are approved. ✓

In Great Bull Creek and the Pee Dee River the hydrographer ran the sounding line continuously through both sheets 5 and 6, it was therefore necessary to transfer some of this work from the record books of one sheet to the record books of the other sheet in order to make the records agree with the smooth sheets. Along both banks of the Waccamaw River sounding lines were run in the deep water and in the shoal water. These lines plot so close together that it is impossible to plot the soundings on both lines in many places. The deeper soundings were plotted. All the soundings on the zig-zag cross lines could not be plotted and it is considered that the lines parallel to the channel are more accurate due to the current and difficulty in obtaining fixes. ✓

Respectfully,

Jack C. Sammons
Jack C. Sammons.

STATISTICS FOR HYDROGRAPHIC SHEET NO.5

Day	Miles	Soundings	Positions
A	8.7	341	44
B	18.2	670	182
C	17.2	666	211
d	10.5	564	96
e	7.7	562	62
f	4.5	299	32
g	4.0	290	30
h	8.7	574	75
j	14.7	972	87
k	2.4	162	15
l	7.4	535	48
m	12.1	869	73
n	5.2	271	33
p	5.2	307	36
q	5.6	242	35
v	<u>14.0</u>	<u>701</u>	<u>125</u>
	116.1	8025	1184

NAME	LOCATED BY	REMARKS
CAMP	Spotted	
CAT	"	
CHAT	G.C.S. H	Signal on face of dock
CHIP	G.C.S. H	Signal in Shoal Water
CHOW	G.C.S. J	Signal on Shoreline
COB	G.C.S. J	Tree on Shoreline
CON	G.C.S. J	Tree on Shoreline
CORD	Spotted	
COW	G.C.S. H	Tree on Shoreline
CREW	G.C.S. H	Shallow Water near Shoreline
D Creek A	Spotted	
D " B	"	
D " D	"	
D " G	"	
D " J	"	
D " K	"	
D Prince Cr.	"	
DAISY	"	
DAM	G.C.S. H	Shallow Water near Shoreline
DAY	G.C.S. H	Shallow Water near Shoreline
DART	G.C.S.	Shallow Water near Shoreline
DECK	Spotted	
DEER	"	
DEKE	"	
DEW	G.C.S. H	Shallow Water near Shoreline
DIG	G.C.S. H	Signal on Shoreline
DO	Spotted	
DOG	G.C.S. H	Signal on Shoreline
DOLLY	Spotted	
DOOR	G.C.S. H	Signal on Shoreline
DOPE	G.C.S. J	Signal on Shoreline
DRAY	G.C.S. J	Signal on Shoreline
DRY	G.C.S. H	Tree on Shoreline
DYE	G.C.S. J	Signal on Shoreline
E Creek A	Spotted	
E " B	"	
E " D	"	
E " G	"	
E " J	"	
E Prince	"	
EAT	G.C.S. H	Tree on Shoreline
EGG	G.C.S. H	Signal on Shoreline
ERN	Spotted	
EYE	"	
EVEN	"	
F Creek A	"	
F " B	"	
F " D	"	
F " G	"	
F Prince	"	
FAG	G.C.S. H	Signal in Shallow Water
FAIL	Spotted	
FED	G.C.S. H	Signal in Shallow Water
FIB	G.C.S. H	Signal in Shallow Water

NAME	LOCATED BY	REMARKS
FIG	G.C.S. H	Signal on Shoreline
FINE	Spotted	
FIT	G.C.S. J	Signal on Shoreline
FLAP	G.C.S. J	Signal on Shoreline
FLATS	Spotted	
FLY	G.C.S. H	Signal on Shoreline
FOG	G.C.S. H J	Signal on Shoreline
FOOD	Spotted	
Foot	"	
FORK	"	
FORT	G.C.S. H	Signal on Shoreline
FUZZ = FUSS	G.C.S. J	Signal on Shoreline
G Creek A	Spotted	
G " B	"	
G " D	"	
G " G	"	
G Prince Cr.	"	
GAG	G.C.S. H	Signal on Shoreline
GAGE	Spotted	
GAR	"	
GAS	G.C.S. H	Signal in Shallow Water
GATE	G.C.S. H	Signal on Shoreline
GIN	G.C.S. H	Signal on Shoreline
GO	G.C.S. J	Signal on Shoreline
GOLD	G.C.S. H	Signal on Shoreline
GORGE	Spotted	
GOSH	"	
GOT	G.C.S. H	Signal near Shoreline
GROW	Spotted	
GUN	G.C.S. H	Signal on Shoreline
GUT	G.C.S. J	Signal on Shoreline
H Creek A	Spotted	
H " D	"	
H " G	"	
H Prince Cr.	"	
HACK	"	
HALL	G.C.S. H	Signal on Shoreline
HANG	G.C.S. H	Signal on Shoreline
HARD	Spotted	
HAT	G.C.S. H	Signal on Shoreline
HELL	G.C.S. H	Signal on Shoreline
HIP	G.C.S. H	Signal on Shoreline
HOP	G.C.S. H	Signal on Shore
HORN	G.C.S. H	Signal on Shoreline
HORSE	Spotted	
HYDE	G.C.S. H	Signal on Shoreline
ILL	G.C.S. H	Tree on Shoreline
IT	G.C.S. H	Signal on Shoreline
J Creek A	Spotted	
J " D	"	
JAB	G.C.S. H	Signal in Shallow Water
JACK	Triangulation	Signal in Tree
JAY	G.C.S. H	Signal on Shoreline
JIB	G.C.S. H	Signal on Shoreline

NAME	LOCATED BY	REMARKS
JINX	Spotted	
JOG	G.C.S. H	Tree on Shore
K Creek A	Spotted	
K " D	"	
K Prince Cr.	"	
KEEL	G.C.S. H	Signal on Shoreline
KEEP	Spotted	
KEY	G.C.S. H	Signal on Shoreline
KICK	SPotted	
KILL	"	
KIM	Triangulation	Tree
L Creek A	Spotted	
L Prince Cr.	"	
LACE	G.C.S. H	Signal on Shoreline
LAMB	Spotted	
LARD	"	
LEAN	"	
LEG	G.C.S. H	Signal in Shallow Water near Shoreline
LET	G.C.S. H	Signal in Shallow Water near Shoreline
LIFE	G.C.S. H	Signal on Shoreline
LIT	Triangulation	
LUX	Spotted	
M Creek A	"	
M Prince Cr.	"	
MAN	"	
MEL	"	
MET	Triangulation	
MEX	Spotted	
MOUSE	"	
N Creek A		
NAB	SPOTTED	
NECK	"	
NERTZ	"	
NEST	"	
ODD	"	
OLD	Triangulation	Tree
OUT	G.C.S. H	Signal on Shoreline
P Creek A	Spotted	
Pack	"	
POT	G.C.S. H	Tree on Shoreline
POX	Spotted	
PUN	"	
Q Creek A	"	
QUACK	"	
RAID	"	
RAT	"	
REIVE	Triangulation	Signal on Shore
RUBY	Spotted	
SALLY	"	
SALT	"	
SAND	"	

SIGNALS USED ON HYDROGRAPHIC SHEET NO. 5

NAME	LOCATED BY	REMARKS
A Creek A	Spotted	
A " B	"	
A " C	"	
A " D	"	
A " F	"	
A " G	"	
A " H	"	
A " J	"	
A " K	"	
A Prince Cr.	"	
ACT	G.C.S. H	Signal on Shore
ADAM	G.C.S. H	Signal on Shore
AFT	G.C.S. H-J	Signal on Shoreline
AIR	G.C.S. H	Signal on Shoreline
AMO	Spotted	
ANT	G.C.S. H	Signal on Shore
ARC	Spotted	
ASH	"	
B Creek A	"	
B Creek B	"	
B Creek C	"	
B Creek D	"	
B Creek E	"	
B Creek F	"	
B Creek G	"	
B Creek H	"	
B Creek J	"	
B Creek K	"	
B Prince Cr.	"	
BAD	G.C.S. H	Signal on Shoreline
BAY	G.C.S. H	Face small dock
BAT	G.C.S. H-J	signal on shoreline
Beg	G.C.S. H	Signal on Shoreline
BEND	Spotted	
BET	"	
BID	G.C.S. H-J	Signal on Shoreline
BIT	G.C.S. J	Signal on Shoreline sml. Island
BLUFF	Spotted	
BOG	G.C.S. H	T _{ee} on Shore
BONE	G.C.S. H	Signal on Shoreline
BOO	Spotted	
BOZ	Triangulation	
BULL	"	
C Creek A	Spotted	
C " B	"	
C " C	"	
C " E	"	
C " G	"	
C " H	"	
C " J	"	
C " K	"	
C Prince Cr.	"	
CAD	G.C.S. H-J	20' Tower on Shore
CALF	Spotted	

NAME	LOCATED BY	REMARKS
SCUM	Spotted	
STACK	Triangulation	Signal on Shore
TAG	G.C.S. H	Signal on Shoreline
TAN	Spotted	
TAX	"	
TIF	"	
TOP	Triangulation	Signal on Shore
TOP SAW	"	Signal on Shore
UGLY	Spotted	
VAN	"	
VI	"	
WACHESAW	Triangulation	Signal on Land
WAVE	Spotted	
X Prince Cr.	"	
ZONE	"	

HYDROGRAPHIC SURVEY NO. 5841

Smooth Sheet 1

Boat Sheet 1

Sounding Records 5 Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes in Vol. 1

Landmarks for Charts (Form 567) None see Desc Rep.

Statistics Yes

Approved by Chief of Party J. C. Sammons

Recoverable Station Cards (Form 524) Yes

Special Chart for Lighthouse Service None No floating aids.
(Circular Nov. 30, 1933)

Remarks _____

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. ...5841

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

Number of positions on sheet
Number of positions checked
Number of positions revised
Number of soundings recorded
Number of soundings revised
Number of signals erroneously plotted or transferred

Date:

Verification by	<i>Ladd, Ash & Cooper</i>	Time:	<i>57 hrs.</i>
Review by	<i>R. J. Christman</i>	Time:	<i>6 3/4 hrs</i>
Inspection	<i>E. P. Peck</i>		<i>5 "</i>

August 19, 1935

200

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Ed. Feb. 1935

TIDE NOTE FOR HYDROGRAPHIC SHEET

Division of Hydrography and Topography:

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

Tide Reducers are approved in
5 volumes of sounding records for

HYDROGRAPHIC SHEET 5841

Locality Bull Creek and Vicinity, Waccamaw River, South Carolina

Chief of Party: J. C. Sammons in 1935

Plane of reference is mean low water reading

3.6 ft. on tide staff at Brookgreen

4.7 ft. below B.M. 1

2.9 ft. on tide staff at Reive

12.5 ft. below B. M. 1

4.9 ft. on tide staff at Enterprise

13.7 ft. below B. M. 1

3.4 ft. on tide staff at "Jack"

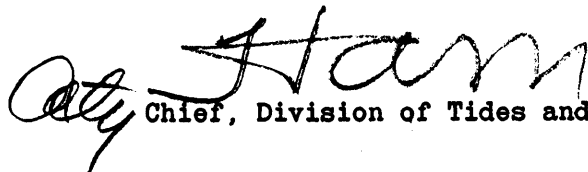
4.2 ft. below B. M. 1

3.9 ft. on tide staff at "Bull"

6.2 ft. below B. M. 1

Height of mean high water above plane of reference is 2.9 ft. at
Brookgreen; 2.3 ft. at Reive; 2.0 ft. at Enterprise; 2.3 ft. at Jack;
1.2 ft. at Bull.

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents.

Verifiers Report

Sheet H-5841 ✓

L. E. Ash

All soundings and positions were checked by MacCooper

All inking was done by L. E. Ash

Work necessary for completion

of sheet consists of comparison

with air photo, junctions with other

sheets, depth curves and additional

inking of soundings

Oct. 31, 1935

1. All the unfinished work as mentioned in verifier report by L.E. Ash, has been completed. ✓
2. Junction with H-5842 (1935) on the north is satisfactory. ✓
3. " " H-5840 (1935) " " south is not shown since the sheet has not been verified nor inked. ✓
4. A brief description of the topo. signals is given on the last sheet which satisfactorily explains a number of signals that plot outside the high water line. ✓
5. Attention is called to Topo. signal "chat" at Lat. $33^{\circ}37.18'$, Long. $79^{\circ}06.0'$. The description on B.S. states "on the face of a dock". Air-photo compilation (T-5250) of the ~~area~~ area does not show a dock at this point. G.C. sheet T-6328b states "signal on dilapidated wooden dock".
T-5249
6. Shoreline originates with ^{T-5249} T-5250, T-5251 and T-5252 ✓

John G. Fair

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5841 (1935) FIELD NO. 5

Bull Creek and Vicinity, Waccamaw and Pee Dee Rivers, South Carolina
Surveyed in March 1935
Instructions dated Oct. 25, 1934 (J. C. Sammons)

Hand Lead Soundings.

3 Point fixes on shore signals.
Range finder and bearings to
signals and to points spotted
on the shoreline.

Chief of Party - J. C. Sammons.

Surveyed by - J. A. McGeehan.

Protracted by - P. M. Mealo.

Soundings penciled by - C. J. Harryman.

Verified and inked by - J. G. Ladd, L. E. Ash and M. D. Cooper.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except that day letters and position numbers were shown in black on cover and title page of sounding records. They have been changed to red, which is the color assigned to the sounding boat by the field party.

The Descriptive Report satisfactorily covers the items of importance.

2. Compliance with Instructions for the Project.

The plan and character of development are in accordance with the specifications for this class of work. No specific instructions were furnished for this particular area.

3. Shoreline and Signals.

The shoreline originates with air photo compilations T-5249, T-5250, T-5251 and T-5252 of 1934-5.

Signals are from triangulation to 1935, Graphic Control Sheets T-6328b and T-6329 of 1935, and points spotted on the air photo compilation boat sheets by the hydrographer. The last are indicated on the smooth sheet by a prick point at the end of a short red line.

4. Sounding Line Crossings.

The cross lines agree satisfactorily.

5. Depth Curves.

The usual depth curves can be satisfactorily drawn. No depth curves were drawn in some of the narrow channels where only a single line of soundings was run.

6. Junction with Contemporary Surveys.

Junction with H-5842 (1935) to the north is satisfactory. Junction with H-5840 (1935) to the south will be considered in the review of that sheet.

7. Comparison with Prior Surveys.

No prior hydrographic surveys have been made by the Bureau in the area represented by this sheet.

8. Comparison with Chart 1237, New Print dated June 18, 1935.

The area represented by the present survey is shown blank on the above chart, as well as on Inside Route Chart 3255. It is charted on obsolete chart 152.

9. Field Plotting.

The field plotting was very well done.

10. Additional Field Work Recommended.

The survey is very satisfactory and no further work is required.


11. Superseding Old Surveys.


This is the first hydrographic survey made by the Bureau in this area.


12. Reviewed by - R. J. Christman, Dec. 13, 1935.


Inspected by - E. P. Ellis, Dec. 19, 1935.

Examined and approved:


C. K. Green,
Chief, Section of Field Records.


L. O. Pollock,
Chief, Division of Charts.


J. S. Boden,
Chief, Section of Field Work.


G. H. Glude,
Chief, Division of H. & T.

Applied to chart 836 Feb. 1, 1936 H.C.