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U. S. COAST & GEODETIC SURVEY  
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Form 504  
Ed. June, 1923

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

State: Georgia

DESCRIPTIVE REPORT

Topographic } Sheet No. 2a, b, c 5597  
Hydrographic } 5598

LOCALITY

Romerly Marsh Creeks, Rhodes  
Creek, Delegal Creek, and  
Bradley River

1934

CHIEF OF PARTY

C. A. Egner

U. S. GOVERNMENT PRINTING OFFICE: 1923

5598

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5597

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. 2a

REGISTER NO. 5597

State Georgia

General locality Wassaw Sound

Locality Romerly Marsh Creek and Rhodes Creek *Large*

Scale 1:10,000 Date of survey May, June and July ~~1933~~ 1934

Vessel OWANEE and MILLER ( Field Party 23)

Chief of Party C. A. Egner

Surveyed by M. G. E. and C. A. Burmeister

Protracted by C. A. E. and V. F. S. Simmons

Soundings penciled by C. A. E.

Soundings in ~~fathoms~~ feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by

Inked by IRVIN MICHAELSON

Verified by IRVIN MICHAELSON

Instructions dated Dec. 5. 1933 ~~1934~~

Remarks:

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5598

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. 2b and 2c

REGISTER NO. 5598

State Georgia

General locality Ossabaw Sound

Locality Bradley River and Delegal Creek *Large*

Scale 1:10,000 Date of survey May, June and July, ~~1932~~ 1934

Vessel OWANEE and MILLER ( Field Party # 23 )

Chief of Party C. A. Egner

Surveyed by M. G. E. <sup>with</sup> and C. A. Burmeister

Protracted by C. A. E. and V. F. S. ~~instruments~~

Soundings penciled by C. A. E.

Soundings in ~~fathoms~~ feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by

Inked by Mark S. Guinee

Verified by Mark S. Guinee

Instructions dated Dec. 5, 1933 ~~1932~~

Remarks:

REPORT TO ACCOMPANY

HYDROGRAPHIC SHEET

NO. 2 a,b,c,

REPORT TO ACCOMPANY HYDROGRAPHIC SHEET

NO. 2 a,b,c.

INSTRUCTIONS:

This sheet was executed under instructions dated December 5, 1933, and is part of the assignment of Field Party #23.

PURPOSE:

The work was done to provide a comprehensive survey for navigational purposes and revise any existing survey.

LIMITS AND LAYOUT OF SHEET:

This is a fractional sheet covering small areas which could not quite be reached on the regular sheets, #7, #2, #9, and #3.

The original intent (or so it was taken to be) was to complete all water area out to include the three fathom curve off shore. In view of this a series of sheets were laid out on a scale of 1/20000 along the coast and reaching as far inland as the inner limits of the Sounds--Wassaw, Ossabaw, St. Catherines', etc. Sheet #2 took in Ossabaw Sound and sheet #3 Wassaw Sound reaching in either direction far enough to facilitate the offshore hydrography and providing a sizable overlap in the broken area between.

Likewise the topography (or location of signals) was done on a scale of 1/20000 on sheets E and M.

The bulk of the hydrography, including the smaller side creeks, was done on that scale though with some difficulty.

When it came time to plot the smooth sheets it was established that the outside coast would be left for some future time. It seemed, therefore, much more accurate to do the smooth plotting on a scale of 1/10000 and since that scale provided a sheet much smaller in area the side streams, Bradley River and Delegal Creek, fell outside the new limits. This made necessary a special fractional sheet these channels which appear now as 2b and 2c.

Likewise that extensive broken area between Wassaw and Ossabaw Sounds, while it could be included within the plotting of sheet 3 (which for various reasons had to remain a 1/20000 sheet) the rather intricate character of the area made it advisable to make a special case of it, so it now appears as the 2a part of this fractional sheet borrowing some of its hydrography from sheet 2 and some from sheet 3.

It is realized that this is a fine example of how not to maintain sequence, and leads to considerable confusion, but it's justification may be found in the belief that a scale of 1/20000 is not large enough to properly show these less important channels. It is planned to forward sheet 2, sheet 3 and this sheet 2 a,b,c to the Office as a group, thereby obviating some of the confusion.

It is likewise evident that had it been originally understood that the offshore area would not be done, a much better layout of 1/10000 scale sheets would have been made.

METHODS:

All hydrography was done with the 10 lb. hand lead. All hydrography was controlled by sextant fixes on signals located by planetable intersection--with the exception that in the lower part of Bradley River (sheet 2c) several signals were spotted from aerial photographs. These appear as green circles. Sounding was done with the current in depths over 18'. Below that the vessel was run either against or with the current as it is believed no in--accuracy results from bow in the leadline under 3 fm. In general, lines follow close by either bank of the stream with additional channel lines depending on the width.

CONTROL--HORIZONTAL:

In general, the principle was used of using a few well located signals rather than a multitude of small ones on the banks of the streams. Since it was possible to sound these areas at half tide or better on launches high enough to see some distance across the marsh grass, this method was found to be a great time saver in topography and in transferring and clerical work. Particularly was this true as the transfer of signals had to be made from 1/20000 down to 1/10000 and could not be done by tracing. There were sufficient triangulation stations already established to control the topography. As had by this time become customary in the party's signal building, signals were in many cases laid out in straight lines often by ranging them in between triangulation stations (note;  $\odot$  Rake and  $\odot$  Aft between  $\Delta$  Johns Hummock and  $\Delta$  Romerly). This increased accuracy in location and provided strong fixes when taken from any point.

CONTROL--VERTICAL:

Tides were referred to portable automatic gauges at Torrey's Wharf, Ossabaw Sound, and near the entrance to Romerly Marsh Creek. Planes were determined by direct comparison with the Standard Automatic Gauge at Ft. Screven. No time or height adjustments were made.

CHANGES SINCE LAST SURVEY:

Much of these areas were never adequately surveyed before so a comparison cannot be made.

IMPORTANCE OF CHANNELS ON THIS SHEET:

Some of the channels of 2 (a) are relatively important as through passages between Ossabaw and Wassaw Sounds. Natural waterways fail to provide a satisfactory channel, however, so that some years ago a dredged cut known as New Cut was inserted to complete the passage. While this was intended to make  $6\frac{1}{2}$  feet effective, at this time the channel is nearly closed.

There is very little call for this channel locally and it is doubted if it has sufficient importance ever to be opened again.

Bradley River is entirely contained within Ossabaw Island. This is private property (Dr. Torrey) and considerable objection was raised to our work in this channel, with the result that rather than antagonize the residents there, a less complete survey was made than would normally be carried out. The stream has no



importance in any event, and its upper reaches were passed up altogether by the sounding party.

Delegal Creek has no importance, and little effort was expended upon it. At its upper end it branches out like an oak tree into numerous little channels which fade into nothing. ✓

GEOGRAPHIC NAMES:

Those charted were accepted as correct.

DANGERS AND ANCHORAGES:

This item merits only the discussion worthy of small channels in a desolate marshy, grassy, muddy area. There is no traffic in these channels and small boats can stop and anchor anywhere.

AIDS TO NAVIGATION:

None. ✓

COAST PILOT INFORMATION:

Will be included in general report covering the season's work.

Respectfully submitted

Approved and forwarded.

*E. H. Hogan*  
Lieut. C & G Survey.

v. C. H.

STATISTICS SHEET 2a from sheet 3

DAYS WHICH APPEAR ON 2a, BUT WHICH  
WERE DONE ON SHEETS 2 AND 3 IN THE FIELD.

lf -- 43 f  
65 -- 170 f  
  
1 g -- 92 g  
  
1 u -- 39 u  
40 u -- 66 u

OWANEE From sheet 2

10 d' -- 28 d'  
6 e' -- 20 e'  
70 g' -- 103 g'  
125 g' -- 134 g'

## LIST OF SIGNALS

SHEET 2a

TRIANGULATION

ROMERLY 1932  
MARSH 1932  
PARSONS 1932  
FORT 1925  
PETICHOU 1932

↖ Does not appear on  
sheet.

TOPOGRAPHIC

AFT	TON
RAKE	THIN
PROP	MAN
NAG	WE
TAR	FECT
FOX	PALL
HIP	AT
INTER	LESS
JIG	HAN
CIG	FLAG
HER	DIA
IN	RAG
MAC	PAN
	BI

LIST OF SIGNALS SHEET 2b

CORN  
SANK  
DRY  
ER  
UNE  
FEAR  
DOS  
RIV  
CON  
GAL  
TRO

LIST OF SIGNALS SHEET 2c

BRADLEYS CREEK

TRO  
NOR  
CENT  
POP  
JEFF  
SAY  
DAY  
HAG  
MUT  
GUS

HYDROGRAPHIC STATISTICS TO ACCOMPANY SHEET #2a

VC	ME	DATE	DAY-LETTER	BOAT	SOUNDINGS	POSITIONS	MILES	
2	Sheet	3	Apr. 24	f	OWANEE	507	149	23.4
2	"	3	" 27	g	"	334	92	13.6
5	"	3	June 12	u	"	311	66	6.3
5	"	2	Mar. 30	dd	"	81	19	2.1
5	"	2	Apr. 3	ee	"	77	15	2.6
5	"	2	May 23	gg	"	200	44	6.4
TOTALS.....						1510	385	54.4

HYDROGRAPHIC STATISTICS TO ACCOMPANY SHEET #2 b and c

VOLUME	DATE	DAY-LETTER	BOAT	SOUNDINGS	POSITIONS	MILES
1	June 8	a	OWANEE	<del>48</del> 206	48	5.9
			Sheet 2b			
1	June 8	a	Sheet 2c OWANEE	298	73	10.2

POSITIONS 1--48 on sheet 2b  
 " 48--121 on sheet 2c

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. .5597

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

Number of positions on sheet	..385.
Number of positions checked	..... 76 - 37 (vols. 5596)
Number of positions revised	..!4..
Number of soundings recorded	..1510..
Number of soundings revised	..31..
Number of signals erroneously plotted or transferred	0 .....

Date:

Verification by IRVIN MICHAELSON

Time: 19 hrs.

Review by

Time:



## Section of field Records

Report on H-5597 Surveyed - May, June, July, 1934.  
Chief of Party - C.A. Egner. Surveyed by M.G.E and C.A.B.  
Protracted by C.A.E. and V.F.S. Soundings plotted by C.A.E.  
Verified and Inked by Irvin Michaelson

1. The records are legible - conforming to the requirements of the Hydrographic Manual. However, signals used in fixes were not written out at the top of each page.
2. The usual depth curves may be completely drawn except in a few instances.
3. Soundings were correctly plotted, with ~~fixes~~.  
Protracting was good; crossings are good.
4. Field drafting good. Junctions with adjoining sheets were inked in black giving the field numbers. Stations used for control for sounding at the southern limits of the sheet were not plotted on the sheet. Verification was accomplished by making a tracing of the adjoining sheet with its signals and using the tracing as a temporary tab.
5. To the ~~west~~<sup>East</sup> there is a junction with H-5599 (1934)  
" " South " " " " H-5596 (1934)  
Overlap was not made since neither sheet has been verified

Respectfully Submitted,  
Irvin Michaelson

Original to color and registered in the U.S.

## Report of Verification H 5598 (1934)

### I Conformity to Hydrographic Manual

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

### II Depth Curves

The usual depth curves (0, 6, 12, +18 feet) are completely drawn.

### III Field and Office Plotting

The smooth sheet was visually compared with the Base sheet, and all apparent discrepancies were checked.

### IV Junctions

Junctions have been made with H 5528 (1934) and H 5596 (1934), and the agreement is satisfactory in each case.

### V Remarks

1. The shoreline has not been completely checked with the Air Photo Compilation. This should be done as soon as T 5115 is available.

2. The location of signals GUS, DAY, +SAY should also be checked on T 5115 to verify the treatment of the Hydrographic files on these signals by the field plotter and the verifier.

3. No reference signals have been placed on this sheet. This is because there are no triangulation signals in the area covered, and all the recoverable station cards have been returned to the field for minor corrections. The recoverable stations given in the Descriptive Reports T 6143, T 6146, + T-6147, and which appear on this sheet, may be subject to minor changes in the field.

Respectfully Submitted,

Mark S. Gurnee

VERIFIER

March 28, 1935

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. 5598

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

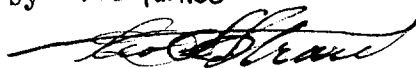
Number of positions on sheet	.121..
Number of positions checked	...19.
Number of positions revised	...4.
Number of soundings recorded	.504.
Number of soundings revised	...24.
Number of signals erroneously plotted or transferred	.....

Date: MARCH 28, 1935.

Verification by M.S. Gurnee

Time: 11 Hours

Review by



Time: 5 hrs.

To: H.M. Strong  
 From: C.F.M.

Survey No. H 5597

GEOGRAPHIC NAMES  
 Georgia

Chart No. 1241

Date. Jan. 25, 1935

Diagram No. 1241-2

Names approved Feb. 27, 1935. Helen Strong.

\* Approved by the Division of Geographic Names, Department of Interior.

∅ Not Approved by the Division of Geographic Names, Department of Interior.

R Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
*	<u>Wassaw Sound</u> ✓	Same			
	<u>Cabbage Island</u> ✓	"			
	<u>Wilmington River</u> ✓	"			
	<u>Romerly Marshes</u> ✓	"			
	<u>Romerly Marsh Creek</u> ✓	"			
*	<u>Wassaw Island</u> ✓	"			
	<u>Odingsell River</u> Q	"			
	<u>Rhodess Creek</u> ✓	"			
	<u>Wassaw Creek</u> ✓	"			
	<u>Tybee Cut*</u> ✓	--			31 57.1 80 59.1
	<u>Wilmington Island**</u> ✓	Same			
	<u>Habersham Cut*</u> ✓				
	<u>Newcut**</u> ✓	Same			
	* From GN Standard 1241				
	** From Chart 1241				

To: H.M. Strong  
From: C.F.M.

Survey No. H5598

GEOGRAPHIC NAMES  
GEORGIA

Chart No. 1241

Date Jan. 25, 1935

Diagram No. 1241-2

Names approved Feb. 27, 1935. Helen Strong.

\* Approved by the Division of Geographic Names, Department of Interior.

Ø Not Approved by the Division of Geographic Names, Department of Interior.

R. Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Ossabaw Island</u>	Same			
	<del>Bradley Creek</del>	<del>Bradleys River</del>	<u>Bradley River</u>		KTN
*	<u>Skidaway Island</u>	Same			
	<u>Delegal Creek</u>	"			
	<u>Green Island</u>	"			
	<u>Vernon River</u>	"			

Section of Field Records.

REVIEW OF HYDROGRAPHIC SURVEY NO. 5597 (1934)

Romerly Marsh Creek and Rhodes Creek, Georgia.

Surveyed in 1934

Instructions dated: December 5, 1933 (NATOMA)

Hand Lead Soundings - 3 Point Control on Shore Signals.

Chief of Party - C. A. Egner.  
Surveyed by - M. G. Elliot and C. A. Burmister.  
Protracted by - C.A.E. and V.F.Simmons.  
Soundings penciled by - C.A.E.  
Verified and inked by - Irvin Michaelson.

1. Condition of Records.

The records are neat, legible and conform to the requirements of the Hydrographic Manual with the following exceptions:

- a. Too few bottom characteristics were recorded.
- b. Stamps fail to show sextant, clock or leadline check.
- c. Control points are not entered in front of sounding record, but are attached to Descriptive Report.

2. Compliance with Instructions for the Project.

A more complete development would have been desirable, to conform with the instructions. It appears however, from the report of the Chief of Party that there was some question, in the field, as to scale and amount of development required; and the work was done on a 1-20,000 scale and then smooth plotted on a 1-10,000 scale. As a natural result an amount of development appearing sufficient on the smaller scale becomes less satisfactory on the larger scale.

3. Sounding Line Crossings.

The few crossings at the mouth of Romerly Marsh Creek check.

4. Depth Curves.

The survey is not sufficiently complete in position to permit a satisfactory drawing of depth curves. The development of narrow waterways with a sounding line along each bank makes for uncertainty in the depth curves. Where the width of the waterway permits three lines should be run. In any case at least one line should be run in the deepest part of the waterway.

5. Junction with Contemporary Surveys.

The junction with H-5596 (1934) and H-5599 (1934) will be considered in the reviews of those sheets.

F.F.  
February 15, 1935

Division of Hydrography and Topography:

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

Tide Reducers are approved in  
2 volumes of sounding records for

HYDROGRAPHIC SHEET 5597

Locality Romerly Marsh Creek and Rhodes Creek, Georgia

Chief of Party: C. A. Egner in 1934  
Plane of reference is mean low water, reading  
2.4 ft. on tide staff at Petit Chou  
14.7 ft. below B.M. 1

2.9 ft. on tide staff at Romerly Marsh Creek  
7.5 ft. below B. M. 1

Height of mean high water above plane of reference is 6.9 feet at  
Petit Chou; 7.1 feet at Romerly Marsh Creek.

Condition of records satisfactory except as noted below:

Some of the tide reducers were found to be in error and have  
been corrected.

*Stannard*  
Chief, Division of Tides and Currents.

February 13, 1935.

Division of Hydrography and Topography:

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

Tide Reducers are approved in  
1 volume/s of sounding records for

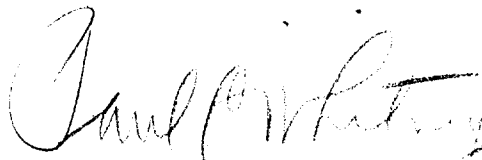
HYDROGRAPHIC SHEET 5598

Locality Bradley River and Delegal Creek, Georgia

Chief of Party: C. A. Egner in 1934  
Plane of reference is mean low water, reading  
2.9 ft. on tide staff at Torrey Dock  
16.7 ft. below B.M. 1

Height of mean high water above plane of reference is 7.5 feet.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.



6. Comparison with Prior Surveys.

a. H-617 (1861).

Since the time of this survey there has been a general shoaling of the whole Romerly Marsh Creek area. 3 ft. appears just inside the entrance where 21 feet was formerly shown. 5 ft. is the maximum depth in Habersham Cut which formerly showed 7-9 ft. Shoaling in the creeks north of Habersham Cut also check the general shoaling shown by present work.

b. H-904b (1863).

This survey covers the entrance to Romerly Marsh Creek only, and agrees with the present work outside the 3 fm. curve.

c. H-4481 (1925).

This survey also covers the entrance to Romerly Marsh Creek and agrees with the present work.

7. Comparison with Chart No. 440.

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraphs and contains no additional information that needs consideration in this review.

The controlling depth of  $6\frac{1}{2}$  feet in New Cut was first added to the charts in 1886. The present survey shows this cut to be partly bare at low water.

8. Field Plotting.

The protracting and plotting were accurate and in general conform to the requirements of the Hydrographic Manual; however, geographic names were inked on the sheet by the field party instead of leaving them in pencil. In addition names of islands were shown with slanting letters instead of vertical letters as is the standard practice.

9. Additional Field Work Recommended.

The development in several of the creeks is insufficient to determine where the deep water is and although there are no connecting waterways other than New Cut (now practically closed) and the area is a relatively unimportant one (see D.R. page 4) an additional line should be run in all the wide waterways to enable the definite drawing of the significant depth curves.

10. Note to Compiler.

Because of the good agreement between the present survey and H-4481

(1925) at the entrance to Romerly Marsh Creek the latter survey may be used to supplement the present survey in the blank areas at the mouth of the creek.

11. Superseding Prior Surveys.

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

H-617 (1861) in part.  
H-904b (1863) in part.

12. Reviewed by - H. T. Kelsh, February 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

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

*[Signature]*  
Chief, Section of Field Work.

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

*[Signature]*  
Chief, Division of H. & T.

*Applied to chart 440. Sept. 14, 1936  
G.H.S.*

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5598 (1934) - FIELD NO. 2b & c

Bradley River and Delegal Creek, Ossabaw Sound, Georgia

Surveyed in June, 1934

Instructions dated December 5, 1933 (NATOMA)

Hand Lead Soundings

3 Point Fix on Shore Signal

Chief of Party - C. A. Egner.

Surveyed by - M. G. Elliott, Jr. and C. A. Burmeister.

Protracted by - C. A. Egner and V. F. Simmons.

Soundings plotted by - C. A. Egner.

Verified and Inked by - M. S. Gurnee.

1. Condition of Records.

The records are neat, 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 satisfies the requirements of the Instructions for the Project.

3. Sounding Line Crossings.

No cross lines were run. The soundings on adjacent parallel lines are in satisfactory agreement.

4. Depth Curves.

The usual depth curves may be satisfactorily drawn, including portions of the low water and the six foot curves.

5. Junctions with Contemporary Surveys.

The junction in Delegal Creek with H-5528 (1934) is satisfactory.

The junction in Bradleys River with H-5596 (1934) is satisfactory.

6. Comparison with Prior Surveys.

There are no prior surveys within the limits of the present survey.

7. Comparison with Chart No. 440 and 573.

The chart contains no soundings within the limits of this survey.

8. Field Plotting.

The field protracting and plotting are satisfactory.

9. Additional Field Work Recommended.

No additional work is required. The reasons for discontinuing the work in the upper reaches of Bradley River are given on page 4 of the D. R.

10. Superseding Old Surveys.

There are no prior hydrographic surveys by this Bureau within the limit of the present survey.

11. Reviewed by - Leo. S. Straw, June, 1935.

Inspected by - A. L. Shalowitz.

Examined, and approved:

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

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

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

*G. W. S.*  
Chief, Division of H. & T.

*Applied to chart 440. Sept. 14, 1936*

*g. H. S.*

*Applied to chart 573 Dec. 30, 1936 g. H. S.*