

5632

23

5632

Form 504
Ed. June, 1928

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

State: Georgia

DESCRIPTIVE REPORT

Topographic } Sheet No. 6
Hydrographic }

LOCALITY

Doboy Sound

~~and Tributaries, Georgia~~

Mud River to South River

Project No. HT-167

1934

CHIEF OF PARTY

John A. Bond, H. & G. Engr.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

JAN 27 1935

HYDROGRAPHIC TITLE SHEET

REG. NO.

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. 5632

REGISTER NO.

State GeorgiaGeneral locality Doboy SoundLocality Doboy Sound and Tributaries Mud River to South RiverScale 1:10000 Date of survey March - April, 1934Vessel Launch MIKAWAChief of Party John A. Bond, H, & G. Emer.Surveyed by F. R. Gossett & D. E. SturmerProtracted by N.J.P.Soundings penciled by N.J.P.Soundings in ~~fathoms~~ feetPlane of reference Mean low water

Subdivision of wire dragged areas by _____

Inked by IRVIN MICHAELSONVerified by IRVIN MICHAELSONInstructions dated December 5, 1933., 19

Remarks: Soundings for SubSheet 5 are contained in
Volume 11 Sheet H5631

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet No. 6

Doboy Sound and Tributaries, Ga.

PROJECT No. HT-167

AUTHORITY

The work on this sheet was executed in accordance with Director's Instructions dated Dec. 5, 1934.

SURVEY METHODS

Standard Coast Survey methods of hand-lead sounding in accordance with the Hydrographic Manual were used throughout the sheet. The lead-line was standard, mahogany colored, wire centered line, marked to feet and using 8 and 12 pound leads. The boat used was a 24 ft. 2 cylinder hired launch equipped with a sounding chair and plotting table. The work through "m" day was done with Lieut. (j.g.) F. R. Gossett in charge. After "m" day Ensign C. F. Chenworth was in charge. All lines were run using natural ranges, buoy and target ranges; except in the small creeks where the lines followed the streams. When the current was too strong to take accurate soundings against it, lines were run with it only. Control consisted of cloth signals and natural objects located by standard Coast Survey methods of triangulation and plane-table topography. The work was done without definite shoreline. Approximate shoreline was taken from old surveys and preliminary photo sheets and is shown in pencil.

DISCREPANCIES

This report is written from the boat sheet. Soundings on the boat sheet are from predicted tides. Small discrepancies in depth curves and cross-lines are expected to check in smooth plotting using gage tides. No discrepancies requiring field examination are known to exist.

DANGERS

There are no dangers except sand bars which are well defined by depth curves.

CHANNELS

Channels are well defined by depth curves. The Intracoastal Waterway channel is marked by day beacons and ranges and project depth is maintained by the U. S. Army Engineers.

COMPARISON WITH PREVIOUS SURVEYS

The only previous survey available is a bromide of 4471. The present survey is much more detailed. However, general depths and curves check very well with the boat sheet.

GEOGRAPHIC NAMES

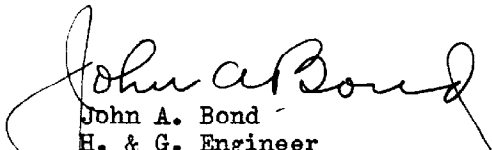
No new place names were used.

Note: This report is written from the boat sheet. Sheets and records are being transferred to Lieut. Egner in accordance with Director's letter to Lieut. C. A. Egner dated April 2, 1934.

Respectfully submitted:

F. R. Gossett
Jr. H. & G. Engineer

Approved & Forwarded:


John A. Bond
H. & G. Engineer
Chief of Party

REPORT FOR SHEET 5a 5632

AUTHORITY:

This sheet is a small sub-plan sounded as part of sheet 5 (MIKAWA) under instructions dated April 2, 1934.

MISCELLANEOUS:

This sub-plan was sounded as a part of sheet 5 and the record will be found in volume 11 for that sheet.

The sheet is projected as part of sheet 6 (MIKAWA).

Tides are taken from the Sapelo gage.

Tidal data and statistics are included in the report for sheet 5 (MIKAWA). 5631

Respectfully submitted,

George Fortune
George Fortune,
Surveyor.

Approved and forwarded;

C. A. Eger
C. A. Eger, Chief of Party.

STATISTICS FOR SHEET NO. 6

<u>Date</u>	<u>Day Letter</u>	<u>Volume</u>	<u>Positions</u>	<u>Soundings</u>	<u>Statute Miles</u>
Mar. 28	a	I	60	278	7.1
29	b	I	34	142	3.3
30	c	I	132	615	16.0
Apr. 2	d	I & II	203	978	27.3
3	e	II	183	877	23.9
4	f	II & III	199	918	25.0
5	g	III	184	760	23.8
6	h	III & IV	138	584	16.1
9	j	IV	159	612	16.6
10	k	IV	192	757	22.5
11	l	V	178	721	20.0
12	m	V	186	639	19.2
13	n	V & VI	158	676	17.8
16	p	VI	165	679	16.6
17	q	VI & VII	127	492	13.1
18	r	VII	108	414	10.8
19	s	VII	40	140	3.6
TOTALS			2446	10282	282.7
				<u>1153</u>	<u>33.1</u>
				11435	315.8

1934

HYDROGRAPHIC SHEET NO. 6

Sheet and records were transferred on April 25, 1934 to Lieutenant C. A. Egner for completion.

Progress on the work on the records at the time of transfer was as follows:

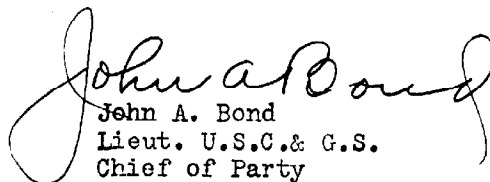
RECORDS

Reducers entered - 0
Reducers checked - 0
Soundings reduced - 0
Soundings checked - 0

SMOOTH SHEET

Projection - Completed and checked
Tri. and Topo stations - Plotted and Checked
Protracting - None
Soundings plotted - None

Records and sheet as completed to date of transfer have been inspected by the Chief of Party and are approved.


John A. Bond
Lieut. U.S.C. & G.S.
Chief of Party

SUPPLEMENTAL REPORT
TO ACCOMPANY
HYDROGRAPHIC SHEET NO. 6 (MIKAWÉ)

AUTHORITY:

This sheet was received from Lieut. J. A. Bond on April 25, 1934 and was finished under instructions dated April 2, 1934.

ADDITIONAL
WORK:

When this sheet was received by Field Party No. 23 Duplin River and three small side creeks were yet to be sounded. This work required no additional topography but several signals were built on Duplin River and located by sextant fixes. The additional sounding was done from the launch OGLETHORPE using the usual hand line method. No dangers, other than those mentioned in the regular report, were discovered. There are no buoys within the sounded area of this sheet.

TIDAL DATA:

In order to complete this work it was necessary to put in a new staff at Sapelo Lighthouse. The MIKAWÉ staff had been washed out.

Sapelo Lighthouse, M.L.W. on Staff -

STATISTICS:

Date	Day	Vol.	Miles	Snd'gs.	Pos.
Nov. 13	a	1a	9.7	315	79
14	b	1a	1.7	72	19
26	c	1a	21.7	766	199
Totals			33.1	1153	297

SIGNALS:

List of signals are shown on accompanying table.

Respectfully submitted,

George Fortune
George Fortune
Surveyor.

Approved and forwarded;

C. A. Egnor
C. A. Egnor; Chief of Party

Signals on Sheet
#6 (MIKAWA)

Triangulation

ROCKdedundy River Bn "1"
DoBOY
Doboy Island WEST House
 South chimney
Doboy Island East house,
 North chimney
NORTH River Bn. "2"
ATwood
Old Teakettle Creek F.R. Bn
Mud River R.R.#5
1-A U.S.E.
New Teakettle Creek Bn. 1
New Teakettle Creek Bn. 2
New Teakettle Creek Bn. 3
Mary
NEW Teakettle Creek Bn. 5
LITTLE Sapelo
Coffins DOCK
Duplin River Light
SAPelo L.H. (New)
SAPelo L.H. (Old tower)

Sextant locations

Den	Trap	South
North		East
West	Mid	White

Topographic locations

Ano	Buz	Sig
Tot	Urn	Vim
Gay	Eze	Fat
You	Who	Vex
Ute	Tid	Say
Rus	Med-	Ink
Hix	Eel	Dam
Caj	Bat	Fin
Era	Dik	Chu
Ben	Air	Gin
His	Imp	Me
Lew	Kid	Joy
Phi	Rob	Swl
Nap	Jab	Ked
Liz	Mix	Nut
Yea	Oat	Pal
Quo	Rex	Rat
The	Up	Ven
Wig	Sam	Dog
Feb	Jak	Law
Abu	Bab	

Old	Pet	Nit
Kru	Gri	Dye
How	Gem	Far
It	Ever	Dad
Chy	Jul	Iso
Bee	Var	Hum
Glu	Fab	Ear
Cub	Blo	Amy
Tog	Sip	Rim
Pit	Oft	Nap
Mib	Lim	Key
Jay	Ima	Hoe
Get	Fla	Eat
Den	Col	Bar
Aro	Vid	Tar
Sue	Oh	Pri
Gas	Rug	Una
Now	Mix	Lum
Kra	Jim	Ira
Hop	Ken	Job
He	Elm	Cop
Bed	Ula	Tuf
Pla	Ode	Low
Jan	Hal	Fie
And	Bun	Cay
Doc	Ear	Gat
Ite	Kit	Mon
Nip	Raw	Sut
Ave	Tal	Doe
Fry	Gis	In
Leg	Mol	Not
Oto	Pay	Ray
Ced	Bit	Ham
Lux	Ask	Oil
Tux	Dim	Sli
Fly	Nor	Out
Wik	Yar	Zus
Ate	Bur	Cut
End	Dut	Fre
Sab	By	Sac
Abe	Dig	Eli
Far	Go	Pax
Net	Mar	Lec
Jit	Hig	Tup
Dug	Git	Fet
Now	Us	Tel
Unk	Zin	Web
Sky	Tan	Erg
Why	Zee	Kak
La	Mun	Nix
Oar	Pad	Qui
Rut	Win	Yes

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. 5632

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

Number of positions on sheet	2999
Number of positions checked	231
Number of positions revised	26
Number of soundings recorded	12712
Number of soundings revised	924
Number of signals erroneously plotted or transferred

Date:

Verification by IRVIN MICHAELSON

Review by *Henry T. Kelsch*

Time: 81 hrs.

Time: 19 $\frac{1}{4}$ hrs.

H-5632 (1934)

1a to 129d — Vol. 1
130d to 125f — Vol. 2
126f to 126h — Vol. 3
127h to 192k — Vol. 4
1l to 5n — Vol. 5
6n to 45q — Vol. 6
46q to 40s — Vol. 7
(red) 1-a to 199c — Vol. 8

Report on H-5632 (1934)
chief of Party - J.A. Bond

Surveyed in Mar. - April, 1934
Surveyed by F.R. Gossett
D.E. Sturmer

Protracted and Plotted by N.J.P.

Verified and inked by Irvin Michaelson

1. The records are neat, legible and complete. They conform to the general requirements of the Hydrographic Manual.
2. The usual depth curves may be completely drawn.
3. Soundings were correctly plotted with some exceptions. Spacing of sounding while fairly well done - could have been improved upon. The protracting was good.
4. Field drafting was good. Junctions with adjoining sheets were noted in black ink giving field numbers. This was corrected. Low water line was inked with a black dashed line. This also was corrected. and adjustments made where modified by hydrography.
5. This sheet was compared with the air-photo compilation. A few topo. stations in the water are on stakes or stumps. Some have not been described.
6. Junctions.
At north with H-5633 ✓
" west with H-5634 (At one junction, no work was done on H-5634).
" south " H-5631 ✓
No overlap was made since these sheets have not yet been verified. ✓

Respectfully Submitted,

Irvin Michaelson

5/6/35.

Survey No. 5 - 5632

GEOGRAPHIC NAMES

Date Feb. 7, 1935

Chart No. 1242

Names underlined in red
Approved March 19, 1935

GEORGIA

Harlow Bacon

Diagram No. 1241-2 & 1242

Examination by WJH

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

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

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
✓	<u>Wolf Creek</u>	Same		✓	
✓	<u>South River</u>	"		✓	
✓	<u>Sapelo Island</u>	"		✓	
✓	<u>Back River</u>	"		✓	
	<u>Commodore Island</u>	"		✓	
✓	<u>Doboy Island</u>	"		✓	
✓	<u>North River</u>	"		✓	
✓	<u>Wolf Island</u>	"		✓	
✓	<u>Beacon Creek</u>	.. <i>USFB</i> <i>11/1/40</i>	Beaver Creek on Darien P.M.M. <i>Beacon OK. J.B.</i> <i>See T 1114, 3750 & H 22</i>	✓	
✓	<u>Duplin River</u>	..		✓	
✓	<u>Little Sapelo Island</u>	"		✓	
✓	<u>Connegon River</u>	"	Connegon on Darien P.M.M. <i>Retain Connegon J.B.</i>	✓	
✓	<u>Hudson River</u>	"		✓	
✓	<u>New Teakettle Creek</u>	"		✓	
	<u>Teakettle Creek</u>	✓ <u>Old Teakettle Creek</u>		✓	
✓	<u>Atwood Creek</u>	Same		✓	
✓	<u>Mud River</u>	"		✓	
	Note:				
		The Names on the Survey were inked in by the Field.			
	ADDENDA:				
		<u>Doboy Sound</u> is indicated and Repeated. ✓			
		Insert "Old" before Teakettle Creek. ✓			
		<u>Marph Creek</u> is indicated. Chart 574			

RAC

March 28, 1935.

Division of Hydrography and Topography:

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

Tide Reducers are approved in
8 volumes of sounding records for

HYDROGRAPHIC SHEET 5632

Locality Mud River to South River, Georgia.

Chief of Party: John A. Bond and C. A. Egner in 1934.

Plane of reference is mean low water reading
3.3 ft. on tide staff at Sapelo Lighthouse
9.9 ft. below B.M. 9

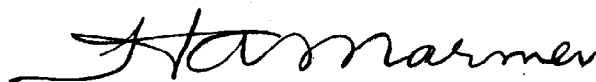
3.5 ft. on tide staff at Hudson River
6.9 ft. below B. M. 1

0.4 ft. on tide staff at Mud River
8.1 ft. below B.M. 1

Height of mean high water above plane of reference is 6.8 feet at
Sapelo Lighthouse; 7.2 feet at Hudson River; 0.4 feet at Mud River.

Condition of records satisfactory except as noted below:

It was necessary to smooth out some of the reducers and in Vol. 8 the
plane of reference used was on the old staff at Mud River, while the
observations were on the new staff increasing the reducers 2.8 feet.



Acting Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5632 (1934)

Mud River to South River, Doboy Sound, Georgia
Surveyed in March - April, 1934
Instructions dated December 5, 1933 (NATOMA)

Hand Lead Soundings

3 Point Fixes on Shore Signals

Chief of Party - J. A. Bond.
Surveyed by - F. R. Gossett, D. E. Sturmer.
Protracted and Soundings Plotted by - N. J. P.
Verified and Inked by - I. Michaelson.

1. Condition of Records.

- a. The records are neat and legible and conform to the requirements of the Hydrographic Manual except as follows:
- (1) A number of signals on which no topographic features were shown, fall outside high water line but within the low water curve. These signals were not described but were assumed to be of a temporary nature.
 - (2) No list of landmarks for charts on Form 567 accompanied this particular sheet.
 - (3) Junctions with adjoining sheets were shown in black ink giving field numbers instead of leaving such information in pencil, and the low water line was shown with a black dashed line instead of a dotted line. These were corrected in the office.
- b. The descriptive report is clear and comprehensive and adequately covers all matters of importance.

2. Compliance with Instructions for the Project.

The plan, character, and extent of the survey satisfy the instructions for the project, except that the work in Hudson River was not carried to the head of navigation.

3. Sounding Line Crossings.

Cross lines are in good agreement, as are adjacent lines.

4. Depth Curves.

Depth curves can be completely drawn including the low water line where it does not practically coincide with the banks of the streams.

5. Junctions with Contemporary Surveys.

Junctions with H-5633 on the north, H-5634 on the west, and H-5631 on the south will be considered in the reviews of those sheets. There is no contemporary offshore survey but the present survey is in fair agreement at its limits with the last previous survey, H-4471 (1924-5).

6. Comparison with Prior Surveys.

a. H-461 (1854).

This survey, on a 1-20,000 scale, is a reconnaissance survey in the mouth of Dobby Sound as far north as lat. 31°25'.

General average depths agree with the present survey but the channel has cut more towards the west bank with a general small shoaling along the east shore.

The large shoal oyster bank at lat. 31°23.8', long. 81°17.5' remains practically unchanged.

Off the south point of Commodore Island the low water flat is now covered at all tides but the general shoal area remains.

At lat. 31°24.05', long. 81°18.6' the same flat exists.

North River, probably through dredging, is considerably deeper. The extensive area of shoal water on the south side of the mouth of the river remains about the same.

Duplin River has apparently been dredged, but the area off the point of Little Sapelo Island (lat. 31°24.9', long. 81°18') is in general about the same.

b. H-957 (1868).

This survey, on a 1-20,000 scale, covers the entrance to Dobby Sound only. In comparison with the present survey it indicates that the deep channel has narrowed somewhat, and the deepest part is now more nearly midway between the two shores.

c. H-959 (1868), H-964 (1868), H-1146 (1872).

These surveys, covering collectively the area of the present survey, are in substantial agreement with the present work with such changes as would be expected in such an area considering the elapsed time since the former surveys. The most important changes are as follows:

The tide flat at lat. 31°27.7', long. 81°19.4' in Old Teakettle Creek is gone and the flat just west of it is now barely awash at low water.

Slightly shoaler water is now found in the upper reaches of Atwood Creek and the island at lat. $31^{\circ}27.4'$, long. $81^{\circ}20.5'$ is becoming somewhat larger.

In the New Teakettle Creek the small bar at lat. $31^{\circ}27.15'$, long. $81^{\circ}18.2'$ is gone.

In the North River the critical depth is now 11 feet, about 4 feet less than at the time of these former surveys.

The small shoal in south shore of South River at lat. $31^{\circ}22.0'$, long. $81^{\circ}18.2'$ with $1\frac{1}{2}$ feet (charted) is gone, and just north of this the two cuts have changed considerably, the west cut being much shoaler and the east cut deeper.

Slightly greater depths are found in the entrance to Beacon Creek.

d. H-4099 (1920).

This survey, on a 1-20,000 scale, covers the entrance to Doboy Sound as far north as lat. $31^{\circ}23.6'$.

The general channel depths average about the same as compared with the present survey, but H-4099 (1920) also agrees with the prior surveys, indicating that the main channel is cutting towards the west side with consequent general, although small, shoaling along the east shore.

A 12 foot shoal is now located at lat. $31^{\circ}22.9'$, long. $81^{\circ}17.2'$ which showed 15 feet before.

A somewhat doubtful 12 foot sounding appears on the present survey at lat. $31^{\circ}22.8'$, long. $81^{\circ}18.05'$ in the mouth of Back River. This sounding also appears on H-4099 (1920) at this place and it is possible that in the general deepening in the area that this shoal spot still persists.

e. H-4471 (1924-5).

This survey, on a 1-20,000 scale, covers about the same area as H-4099 (1920) and in general agrees with it.

7. Comparison with Chart No. 574.

a. Hydrography.

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraphs with the exception of the dredged channel at lat. $31^{\circ}27.5'$, long. $81^{\circ}19.5'$. This was charted under authority of B. P. 19655, January, 1925.

Latest Engineer's Blue Print 27553 (May 18, 1934), giving controlling depth of 9.7 feet, agrees with the critical depth developed by the present survey of 9.5 feet.

b. Aids to Navigation.

Locations of day beacons and ranges on the present survey check with the charted positions.

c. Charted Island.

No authority could be found for the small island charted in lat. $31^{\circ}27.9'$, long. $81^{\circ}19.6'$. It is not shown on the air photo compilation and the present hydrography disproves its existence. This island should be deleted from the chart.

8. Field Plotting.

The field protracting and plotting was good and conforms to the requirements of the Hydrographic Manual.

9. Additional Field Work Recommended.

This sheet is a fine example of a well developed area. The straightness of the lines and the uniformity of the spacing show excellent boat control.

The upper reaches of Hudson River west of long. $81^{\circ}21.8'$ has not been surveyed. This area is covered by H-959 (1868) and the agreement is generally good. Because of the relative unimportance of the unsurveyed area, no additional work is considered necessary.

10. Note to Compiler.

Because of the general good agreement between the present survey and H-959 (1868) in the upper reaches of the Hudson River west of long. $81^{\circ}21.8'$, the latter survey may be used to supplement the present survey in the area not covered by H-5632 (1934).

11. Superseding Old Surveys.

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

H- 461 (1854)	in part
H- 957 (1868)	" "
H- 959 (1868)	" "
H- 964 (1868)	" "
H-1146 (1872)	" "
H-4099 (1920)	" "
H-4471 (1924-5)	" "

12. Reviewed by - H. T. Kelsh and R. L. Johnston, May, 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

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

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

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

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

Applied to new compilation drawing of chart 574 - Nov. 3, 1936 - J.S.W.

25 June 10, 1936

L.H.G.

applied to new competition ch-575 June 1937 P.B.C.

applied to chert 1242, Mar. 16, 1939 G.H.S.