5581

U.S. COAST & GEODETIC SURVEY

DEC 29 1934

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Form 504 Ed. June, 1928 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R. S. Patton, Director
State: Georgia
DESCRIPTIVE DEPORT
DESCRIPTIVE REPORT
Topographic Sheet No. 4 5581
LOCALITY
Intracoastal Waterway, Ga.
St. SimonAltamaha Sounds
Project No. HT-167
TOJECO NOS III TO
19.34
OHIEF OF PARTY
John A. Bond, H. & G. Engr.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

U.S. COAST & GEODETIC SURV LIBRARY AND ARCHIVES DEC 28 1934	REG. NO.
Acc. No.	- ن
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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. 4

REGISTER NO. 5581

State Georgia
General locality Altamaha Sound Darien to Frederica River, From Darien to Frederica River, Locality Buttermilk Sound Joseph Georgia Mulb.
From Darien to Frederica River,
Locality Buttermilk Sound Jange pro
Scale 1:10000 Date of survey March - April , 19 34
Vessel Launch MIKAWE & Party No. 23
Chief of Party John A. Bond, H. & G. Engr. & C. A. Egner
Surveyed by D. E. Sturmer & M. G. Elliott
Protracted by F.H.L., D.M.W.
Soundings penciled byF.H.L.
Soundings in ###### feet
Plane of reference Mean low water
Subdivision of wire dragged areas by
Inked by W. R. Jackson
Verified by W.R. Jackson
Instructions dated <u>December 5, 1933.</u> , 19
Remarks:

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet No. 4

Intracoastal Waterway

St. Simon - Altamaha Sounds

AUTHORITY

This work was executed in accordance with the Director's Instructions dated Dec. 5, 1933, to the Commanding Officer Launch MIKAWE, Project No. HT-167

LIMITS SHEET

Sheet 4 joins sheet 5 on the north, sheet 3 on the south both of which were executed by the Launch MIKAWE, this season.

SURVEY METHODS

Standard Coast Survey methods of hand lead soundings and sextant fixes were used. The lead line was No. 8, Samson mahogany tiller rope, graduated in fathoms and feet. The sounding boat was a 22ft. skiff with outboard motor. Sounding lines were run, only with the current, in areas where good soundings could not be obtained running against the current.

DISCREPANCIES

No discrepancies are known to exist. Errors in the sounding records, principally in recording and reading of angles have been adjusted during the smooth plotting and noted in red in the sounding records.

DANGERS

Along the northern and southern shores of Altamaha River, Lat. 31-20 N. between Long. 81-25 W. and 81-26 W. are submerged tree stumps extending 5 to 10 meters into the river.

In the South Altamaha River Lat. 31-19-5 N. Long. 81-25 to 81-26 are three large logs, the upper end of which is afloat and the lower end imbedded in the mud. They are located by positions 39m, 40m, and 50m.

CHANNELS

The channel marked by the ranges, topographic signals, Nut and Say, Lat. 31-18.3 N. Long. 81-24.2 W. is dredged by the U. S. Engineers. Other narrow channels in open water are marked by day beacons.

MISCELLANEOUS

This sheet was executed without definite shore line on the boatsheet.

This report is written from the boatsheet, because the sheet and records are being transferred to Lieut. C. A. Egner for smooth plotting, in accordance with the Director's letter dated April 2, 1933 to Lieut. Egner.

Respectfully Submitted:

D. E. Sturmer Deck Officer, C. & G. S. Hydrographer

Approved & Forwarded:

John A. Bond

H. & G. Engineer Chief of Party

HYDROGRAPHIC SHEET NO. 4

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.

ohn A. Bond

Lieut. U.S.C.& G.S.

Chief of Party

U.S. COAST & GEODETIC SURVEY I TREADY TOD ARCHIVES

DLC 28 .334

Acc. No.

SUPPLEMENTAL REPORT

TO ACCOMPANY

SHEET #4 (MIKAWE)

AUTHORITY:

This sheet was received April 25, 1934 from Lieut. J. A. Bond under Instructions dated April 2, 1934.

ADDITIONAL WORK:

A few side creeks were still to be sounded when this sheet was received by Field Party No. 23. A few new topographic signals were established to control this area. An additional 31.6 miles of hydrography was sufficient to complete the sheet. This hydrography was run by the launch OWANEE and is recorded as part of Volume 7. A hand line and 8-pound lead were used. No additional dangers were discovered.

STATISTICS:

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	18	ů	7	4.7	151	40
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Respectfully submitted,

George Fortune

Approved, and forwarded;

Egner, Chief of Party,

Lieut. C/. & G. Survey

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Sis	Ban	Elf	Kat	Lat	Hal
Man	Tor	Fry	Leo	Wood	Fiz
Gal	Ite	Reo	Ken	Cod	Alt
Beg	Kin	Aid	Mol	Pop	Quo
Zel	Ave	Use	Kiss	Sta	Tal
Lon	011	Log	New	Her	Fid
Eve	Jig	Ear	Del	Gor	Cup
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Ray	Ned	Ex	Ean	Yam	Cal
Vim	Wee	Dub	Jas	Jin	Les
Gater	Zip	Hampton	Rut	Air	Wil
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Bec	Bal	Rye	Hue	Old	Gum
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Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. 5581

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

Number of positions on sheet	2187
Number of positions checked	106
Number of positions revised	43
Number of soundings recorded	10293
Number of soundings revised	1348
Number of signals erroneously	
plotted or transferred	0

Date: Mar. 21,1935.
Verification of Protracting
Verification and Inking
Verification by W. R. Jackson
Review by P. J. Christman

Time; 14 hrs. Time: 68 hrs.

Time: 1814

Critical Report

Report on _H-5581

Surveyed in Mar.-April, 1934.

Chief of Party J.A.Bond-C.A.Egner

Surveyed by D.E.Sturmer-R.Elliot_

Protracted by F.H.L., D.M.W.

Soundings plotted by _F.H.L. _ ___

Verified and Inked by W.R.Jackson_

- 1. The records conform to the requirements of the General / Instructions, except, (a) the fix was not entered at the top of each page.
- 2. The usual depth curves can be completely drawn, except, (a) at the junction of "Wood Cut" and "Altamaha River".
- 3. The field plotting was completed to the extent prescribed in the Hydrographic Manual, except: (a) Too hard a pencil was used, causing indents in the paper, (b) Soundings were not spaced carefully with the spacing dividers, (c) 1 foot, soundings were not plotted as "o" feet.
- 4. No drafting was done over as no comparison with photo compilation was made.
- 5. Junctions with contemporary surveys have not been made.
- 6. Remarks:
 - (a) Position "185" was changed to conform in its general direction with the boat sheet, being taken from the easterly branch of "Walley Leg" and placed in the norterly branch, Lat. 31-17.9 Long. 81-25.5
 - (b) Numerals were not placed on the Boat Sheet in the same direction, or using North as the top of the Sheet.

Respectfully Submitted M. R. Jackson TO: H.M. Strong From C.F.M.

Date. Jan. 17, 1935

GEOGRAPHIC NAMES Georgia

Survey No	H 5581	
Chart No	1242	

Names approved Jan. 29, 1935. Helen M. Strong

Diagram No. 1242-2

Approved by the Division of Geographic Names, Department of Interior. Harlow Bacon

 $\rlap/{c}$, Not Approved by the Division of Geographic Names, Department of Interior.

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

Butler Island Butler River Champney Island Wood Cut Darien Generals Cut Show Creek Black Island Ganarala Island Altemaha River Threa Mile Cut Broughton Island South Altamaha River Buttermilk Sound One Mile Cut Little St. Simon Island Hampton River St. Simon Island Wilson Creek " Wally Leg Mackay River " Mackay River " " Mackay River " " " " " " " " " " " " "	Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
Butler River Champney Island Wood Cut Darien Generals Cut Snow Creek Black Island Genarals Island Altamaha River Three Mile Cut Broughton Island South Altamaha River Buttermilk Sound One Mile Cut Little St. Simon Island Same St. Simon Island Wilson Creek " Wally Leg " Wally Leg " " " " " " " " " " " " "		Butler Island	Same	/		
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Hampton River St. Simon Island Wilson Creek Wallys Lag 11/1/40 056		One Mile Cut	Onemile Cut			
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To; H.M. Strong From C.F.M.

GEOGRAPHIC NAMES

Survey	NoH_5581	

Date. Jan. 17, 1935

Chart No. 1242-

		Diagram No. 1242-2
	Names approved Jan. 29, 1935. Alex To Strange	11 1 R
		Naclow Jacon
★,	Names approved Jan. 29, 1935. Hele M. Strong Approved by the Division of Geographic Names, Department of Interior.	- ,

- $\not C$, 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
	Frederica River	Same			
	Note:				
	The Names on th	is Sheet were inked on t	he Sheet by	the Field.	
	Darien River	Same		·	
	Pico Cut	17			
	Altamaha Sound	11			
	Title of sheet change				
		to From Darien to Vicinity of Ad Georg	tamaha Sound	ver	
	instructions from Cap	l .	M. Stron	- 	
					(M I

STATISTICS FOR SHEET NO. 4

Date	Le	Day etter	Volume	Positions	Soundings .	Statute Miles
Mar.	14 15 16 19 20 21 22 23 26 27 28 29 30 2 6 12	abodef shjkimnpqr	I	134 94 159 120 145 128 194 205 112 144 116 60 147 101 84 13	693 510 701 609 719 690 967 814 499 686 600 264 653 475 431	15.4 12.8 15.3 12.6 17.7 16.0 21.0 12.9 12.0 18.4 12.5 6.6 17.5 10.0 8.2 1.0
			TOTALS	1956	9381	209.9

FE

February 8, 1935.

Division of Hydrography and Topography:

Division of Charts:

Attention Mr. E. P. Ellis

Tide Reducers are approved in 7 volumes of sounding records for

HYDROGRAPHIC SHEET 5581

Locality Buttermilk Sound, Altamaha Sound, Georgia

Chief of Party: J. A. Bond in 1934

Plane of reference is mean low water, reading

4.7 ft. on tide staff at Champney I., Altamaha River

5.9 ft. below B.M. 1

3.5 ft. on tide staff at Darien

18.6 ft. below B.M. 1

4.7 ft. on tide staff at Wolf Island, Altamaha Sound

8.6 ft. below B.M. 1

3.8 ft. on tide staff at Frederica

14.1 ft. below B.M. 1

2.1 ft. on tide staff at Troup Creek

7.8 ft. below B.M. I

3.3 ft. on tide staff at Three Mile Cut, Darien River

8.3 ft. below B.M. 1

Height of mean high water above plane of reference is 5.2 ft. at Champney Island, Altamaha River; 7.3 ft. at Darien; 6.6 ft. at Wolf Island, Altamaha Sound; 7.2 ft. at Frederica and Troup Creek; 7.1 ft. at Three Mile Cut, Darien River.

Condition of records satisfactory except as noted below:

Some of the tide reducers were entered in the field from predicted tides when observations were available. These were verified and corrected with the observed tides.

In places the reducers were smoothed out where unreasonable jumps in reducers were made in changing from one tide station to another.

Acting Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5581 (1934)

Darien to Frederica River, Vicinity of Altamaha Sound, Georgia
Surveyed March-April 1934
Instructions dated December 5, 1933 (MIKAWE)

Hand lead soundings - 3 point fixes on shore signals.

Chief of Party - John A. Bond, C. A. Egner.
Surveyed by - D. E. Sturmer, M. G. Elliot, George Fortune.
Protracted by - F.H.L. and D.M.W.
Soundings penciled by - F.H.L.
Verified and inked by - W. R. Jackson.

1. Condition of Records.

The records in general conform to the requirements of the Hydrographic Manual except as follows:

- a. Names of signals used were not always entered in the fix at the top of each page, (see par. 74 of the Hydrographic Manual).
- b. The location of a sunken barge was indicated on the smooth sheet by a rock awash symbol (\star) instead of by a wreck symbol. This was changed in the office. Lat 31° 19.9'-Long. 81°-26.8'
- c. Many topo. signals whose nature is not indicated in the records, fall outside the high water shoreline now shown on the sheet. Information relative to them will be requested from the field party if their nature is not disclosed when the sheet is compared with the air photo compilation, which has not been received at this time.

2. Compliance with Instructions for the Project.

The plan and extent of development are in accordance with the instructions except that not enough cross lines were run"to afford adequate check on the soundings obtained". (Instruction par. 14).

3. Sounding Line Crossings.

Soundings in general are consistent and the depths on the few crossings are in good agreement.

4. Depth Curves.

Within the limits of the survey the usual depth curves can be satisfactorily drawn except at the junction of Wood Cut and Altamaha River (lat. 31°20'.3, long. 81°26'.35) where there is some uncertainty about the exact location of the channel.

5. Junction with Contemporary Surveys.

The survey joins H-5631 (1934) on the north and east, H-5590 (1934) on the south and H-5635 (1934) on the west. Junctions with these sheets will be considered in the reviews of those surveys.

6. Comparison with Prior Surveys.

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

These two sheets comprise the first survey of the area under consideration. A comparison with the present survey shows that numerous changes have taken place and the entire area must be classed as changeable.

a. The following are some of the more important changes noted:

In Darien River, Pico Cut has widened to about three times its former width and the old bend of the river has filled up until it is almost bare at low water.

- b. In Altamaha River, the best channel from the north side to the south side of the river now passes close to the western end of the large island in the middle of the river instead of about 400 meters westward of it. At the east end of this island the shoal area has extended eastward and the present survey shows a spot bare at low water where the former survey shows 7 to 8 feet.
- c. A channel has been dredged across the shoal area in Buttermilk Sound (lat. 31°18', long. 81°24') as a part of the improvement of the Intracoastal Waterway.
- d. The old bend of the river where Hampton River and Wilson Creek join Buttermilk Sound is filling up and now has a depth of only 2 feet in the channel near its western outlet.

7. Comparison with Chart No. 1242.

a. Hydrography.

Within the area of the present survey the chart is based on surveys discussed in the preceding paragraphs and U. S. Engineer's B. P. No. 27555 (1934). This B.P. covers the dredged cut in Buttermilk Sound and the charted controlling depth of 10 feet in this cut does not conflict with the information given on the present survey

b. Aids to Navigation.

The charted beacons originating with Notice to Mariners No. 43 of 1930 are in agreement with the positions given by the present survey.

8. Field Plotting.

Field protracting was not well done. Over 40 positions were revised. The records show, that some of these positions were erroneously changed by the field plotter as the original signals and angles showed good agreement in time, and were supported by the boat sheet.

Penciled soundings were not always accurately spaced, and too hard a pencil was used, causing indents in the paper.

9. Additional Field Work Recommended.

The survey is satisfactory. It is desirable to have a channel line run into the northern entrance to Wood Cut, see paragraph 4 of this review. No other work is deemed necessary within the limits of this survey.

10. Superseding Old Surveys.

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

H-964 (1868) in part. H-1146 (1872) in part.

11. Reviewed by - R. J. Christman, March 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

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

Chief. Section of Field Work.

Chief, Division of Charts.

Chief, Division of H. & T.

applied to drawing of Chart 574 (New Compilation) Wee 3, 1936 - gras.

Opplied to new confilation Cht 575 July 1937 PAR. applied to Chart 1242, man. 16, 1939