5582

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

DESCRIPTIVE REPORT

~~Topographic~~
Hydrographic | Sheet No. 5582
Field # 13

State Georgia

LOCALITY

Sapelo Sound

South Newport River

1934

CHIEF OF PARTY

C. A. Egner

U.S. GOVERNMENT PRINTING OFFICE: 1934

5582

Form 537
Ed. Dec., 1930

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5582

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. 13

REGISTER NO. 5582

State Georgia

General locality Sapelo Sound

Locality South Newport River large

Scale 1/10,000 Date of survey Feb. & Oct., 19 34

Vessel Party No. 23

Chief of Party C. A. Egner, H. & G. E.

Surveyed by J.M. (Mathis), R.E.D. (Diehl), C. A. B.

Protracted by A.P.S., V.F.S. (Simmons), G.F. (Eglund), W.F.K.

Soundings penciled by V.F.S., G.F.

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by

Inked by C. Stanley Lightbown

Verified by

Instructions dated Dec. 5, 19 33

Remarks:

U. S. GOVERNMENT PRINTING OFFICE, 1931

DESCRIPTIVE REPORT

TO ACCOMPANY HYDROGRAPHIC

SHEET NO. 13, GEORGIA, 1934.

FIELD PARTY NO. 23,

C. A. EGNER, CHIEF OF PARTY

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET #13

PARTY NO. 23, C. A. EGNER, CHIEF OF PARTY

1934

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INSTRUCTIONS:

This sheet was executed under Instructions dated December 5, 1933, covering combined operations of Party No. 23 in conjunction with those for the Tender GILBERT, on the Inside Passage of the Georgia Coast.

PURPOSE:

The work was done to provide a comprehensive survey of the inland waterway for navigational purposes, there being no up-to-date survey available.

LIMITS
AND JUNCTIONS:

This sheet covers the area from the mouth of Timmon's River in St. Catherines Sound on the north to the mouth of Wahoo River just above Sapelo Sound on the south. Eastern water limits are Walburg Creek and Johnson Creek. The sheet extends westward to the junction of Mollclark and North Newport Rivers. Sheet 13 makes a junction with Sheet 4 at St. Catherines Sound on the north, sheet 14 at the mouth of the South Newport River on the south, and sheet 24 on the west.

CHARACTER
OF LOCALITY:

Generally speaking the water areas of this sheet lie in flat marsh between high ground on St. Catherines Island and the wooded areas of Harris Neck and Yellow Bluff. The marsh area is broken here and there by small clumps of scrub trees. The tides from both St. Catherines Sound and Sapelo Sound effect the water level within the limits of this sheet.

OVERLAPS IN
SUPERVISION OF THIS SURVEY:

This sheet is one of that group originally under the supervision of Lieut. Odessey. The projection was made by shore party #23 and turned over to Lieut. Odessey following his return from the hospital. His work comprised the sounding of the main channel of the Inland Waterway only. The

side creeks and main rivers were finished to the limits of the sheet after the sheet was turned back to field party #23 when Lieut. Odessey was transferred. This is one of several incomplete sheets involving many delays due to compilation of photographs, washed out tide staffs, and signal rebuilding.

METHODS:

All sounding on this sheet is controlled by fixed positions with a sextant. The main channel was sounded by the launches SEA ISLAND and PATSY attached to the Tender GILBERT. The remaining work was completed by the launches OGLETHORPE and PATSY after the sheet was inherited by field party #23. Main channels were controlled by near-by topographic signals and the open marsh permitted, in general, these same signals, together with a few new ones, to be used for the control of the secondary rivers and side creeks. Standard 8-pound hand lead line was used.

CONTROL HORIZONTAL:

The coastal coordinating scheme of triangulation of 1932 and a few additional stations broken down from this scheme furnished adequate control for the topography in this section. An abundance of signals were built and located under Lieut. Odessey's supervision for the purpose of sounding the main channels. A few additional signals were necessary for the proper execution of the side creeks.

CONTROL VERTICAL:

The tidal reductions were controlled by four gages and staffs. Areas were so divided as to take best advantage of these. Controlling gages for this sheet were located at Walburg Creek and Sapelo Quarantine Station. Secondary gages were located at North and South Newport Rivers. Planes for all gages were well established by 75 hours continuous observation and comparison with the standard gage at Fort Screven.

No time or height corrections were made. It is believed that failure to make this corrections results in no appreciable error even in the side creeks because of the gage locations and the physical nature of the water area.

COMPARISON WITH PREVIOUS SURVEYS:

No satisfactory basis exists for comparison.

the controlling dept over the bar at the south entrance to Walburg Creek is 9 feet. RPG

DANGERS AND
CONTROLLING DEPTHS:

There are no dangers on this sheet since channels are well marked by unlighted beacons and buoys. 14 feet of water can be carried the full length of Walburg Creek. Johnson Creek has a controlling depth of 10 feet at Mean Low Water. That part of the Inland Waterway appearing on this sheet will therefor accomodate boats for through passage at mean low water drawing up to ten feet. Good anchorage may be had anywhere on the sheet in proper depths of water.

GEOGRAPHIC
NAMES:

Local names as charted are considered the best ones available. ✓

AIDS TO
NAVIGATION:

The inside route is adequately marked by unlighted beacons and buoys. Location of these are shown on the sheet. Sextant angles for the future location of the buoys have been recorded for use of the Lighthouse Service. There are no bridges on this sheet. ✓

COAST PILOT
INFORMATION:

The season's report for this area will cover any additional information not here recorded. ✓

TIDAL DATA
AND STATISTICS:

Are shown on separate sheets attached to this report.

Respectfully submitted,

George Fortune
Surveyor.

Approved and forwarded;

C. A. Egner
C. A. Egner, Chief of Party

Note to accompany sheets 13 and 24.

Overlap between Sheets 13 and 24.

When the field work was done on boat sheets 13 and 24, there was an oversight in failing to notice that the limits of the smooth and boat sheets for 13 failed to agree by a considerable amount along the edge where it joins sheet 24. Consequently, considerable hydrography was done on the edge of boat sheet 13 which failed to plot on the smooth sheet due to several signals plotting well off the sheet. Likewise, in this hydrography, several signals were used which fall too far to the eastward to enable the work to be plotted on smooth 24.

In this dilemma, but one solution presented itself. That was to prepare a sub-smooth sheet covering the area in question and large enough to include all of the signals used. After plotting on this sub-sheet, the positions were transferred to the regular sheets 13 and 24 by tracing paper, so that these sheets now have a true overlap. and 26

The sub-sheet is forwarded with the smooth sheet for sheet 13, for office verification.

The sub sheet is registered and filed with this sheet, H-5582

HYDROGRAPHIC STATISTICS, SHEET NO. 13

Date	Vol.	Day	Boat	Miles	Snd'gs.	Pos.
2/26/34	1a	a	Sea Island	12.2	498	78
27	1a	b	ditto	9.8	822	124
28	1a	c	ditto	4.1	174	28
3/11/34	1b	a	Patsy	14.4	543	113
12	1b	b	ditto	18.4	618	134
13	1b	c	ditto	9.3	257	50
15	1b	d	ditto	10.2	354	77
11/7/34	1c	a	Oglethorpe	42.8	1219	310
8	1c	b	ditto	19.4	567	148
3/24/34	2	e	Patsy	9.0	317	55
25	2	f	ditto	15.3	531	96
26	2	g	ditto	26.2	867	192
27	2	h	ditto	9.0	228	51
27	3	h	ditto	10.0	295	69
28	3	j	ditto	15.5	486	123
9/18/34	3	k	ditto	9.2	329	87
19	3	l	ditto	17.3	600	155
20	4	m	ditto	3.45	67	20
25	4	n	ditto	18.6	572	174
10/3/34	4	p	ditto	19.3	583	123
4	4	q	ditto	19.1	575	123
4	5	q	ditto	3.9	125	30
5	5	r	ditto	2.2	68	14
8	5	s	ditto	16.2	437	111
9	5	t	ditto	15.2	491	126
10	5	u	ditto	14.7	413	95
12	5	v	ditto	4.0	127	33
15	6	w	ditto	2.8	92	30
			Totals	271.55	12,255	2769

Signals on Sheet 13

Triangulation Stations

EngiNEER	Burg	Sim
Bn "3"	English CUT	
Old BOILer		Bn. "5"
Bn. "7"	NewPORT	JOHNson
North	Cedar	
Boathouse PEAKed Roof		
Boathouse GREEN roof		
Wal		
Sextant location		

Shu	Dim	Ed
Hoot	Pint	Knott

Topographic location

Rip	Tide	Pen
Mid	Abe	Bat
Cok	Dog	Eve
Fat	Go	Back
Hop	Ike	Jab
Ken	Lip	Man
Not	Odd	Pole
Ape	"1"	Front
Rear	Unk	Turn
Stop	Raft	Pod
Black	Flag	Cros
We	Ban	Tee
In	Die	Nat
Acc	Trey	Yes
No	"2"	Rat
Dub	Bob	All
Nick	Rut	Con
Mat	Topo	Mis
Vac	Big	Bog
Joe-	Card	Pro
Dike	Red	Bit
Mad	Gar	Won
Last	East	West
Dope	Dog	Cat
Fun	Bill	Die
Cone	Slap	Cairo
Miller	Survey	Geor
Coast	Sing	Hail
Snow	Rain	South
Blizz	Moss	B.W.
Gag	Bus	Lig
Mess	Lone	"HW
Clutt	Vert	Duce
End	Guy	Tel
Flo	Jane	Slat
Dub	Poor	Bug
Wop	Cad	Top

The office draftsman did over a part of field draftsman work, namely a portion of shore line and corrections as listed above.

JUNCTIONS.

Junctions with contemporary sheets were not made, as none had been verified upon completion of this sheet.

Remarks.

It was necessary for the verifier to make a separate sheet, plotting some positions from red a day and blue t day, from records (H-5582-1934) including all signals used for these positions, projection lines etc. as these soundings and positions ~~of~~ should appear on three sheets which connect at this point, namely H 5585, H 5586 and 5582. ~~notes~~ were made on other sheets calling attention to this drawing ~~which is known as H~~ H 5582-1934, these soundings will be plotted when shore line is determined. (OK C.S.L. July 13)

Respectfully submitted

C Stanley Lightbourne

A part of the hydrography was not inked as it conflicts with shore line and a P C is not available at this time.

[redacted]

Will complete report after topo sheet 5117 comes in

July 13 CSL
This sheet has been compared with A.P.C. celluloid and corrections made.
A number of soundings + positions from H 5582 were plotted on H 5585 & 5586 and overlaps made on these sheets, since the smooth sheet (H 5582) was not large enough to include this work. CSL.

March 6 - 1935

Report on H 5582 - (1934)

Chief of Party. C A EGNER
Surveyed Feb - Oct. 1934
Surveyed by J.M. - R.E.D. - C.A.B.
Protracted by A.P.C. + V.F.S. - G.F., W.F.K.
Soundings plotted by V.F.S - G.F.
Verified and inked by. C Stanley Lightbourn

RECORDS

The records conform to the requirements of the General Instructions except as follows.

1. "S" was used at top of page instead of signal names, this occured on five pages consecutively in one instance
2. day letter omitted from several pages.
3. one error in tide reduction.
4. names of signals misspelled in records.
5. One signal (WIT) not listed as required.
6. Two red "a" days were used

CURVES.

~~Abb~~ Depth curves were completely drawn.

FIELD PLOTTING

1. The following day letters were in wrong colors on smooth sheet b - c - e - f - g - h - j (These were changed in records by verifier)
2. Two signal names were misspelled on Smooth Sheet
3. " " " omitted from " "
4. Two signal names were misspelled on "extra" smooth sheet.
5. 292 soundings were revised because of erroneous plotting according to time interval. Spacing dividers evidently were not used and a good portion of sheet.
6. Six positions were erroneously plotted, varying in error from 25 to 330 meters.
7. Reefs, bars and islets, from records, were not shown
8. $-\frac{1}{2}$ foot soundings were not plotted as 0.
9. 28 positions and soundings between were not plotted and no notes pertaining to same could be found (see Remarks this report)

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. 5582

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

Number of positions on sheet	2769
Number of positions checked	283
Number of positions revised	26
Number of soundings recorded	12255
Number of soundings revised	292
Number of signals erroneously plotted or transferred	0

Date:

Verification by G. STANLEY. LIGHTBOWN. Time: 90½ hrs
Finding

Review by R. J. Christman Time: 24¼

EAC

January 16, 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 5582

Locality South Newport River and Vicinity, Georgia

Chief of Party: Herman Odessey in 1934
Plane of reference is mean low water reading
2.3 ft. on tide staff at Walburg Creek
10.7 ft. below B.M. 1
1.9 ft. on tide staff at North Newport River (old staff)
7.7 ft. below B.M. 1
0.3 ft. on tide staff at South Newport River
19.7 ft. below B.M. 1
2.0 ft. on tide staff at Sapelo Sound Quarantine
8.4 ft. below B.M. 1

Height of mean high water above plane of reference is 7.1 feet at Walburg Creek; 7.6 feet at North Newport River; 7.3 feet at South Newport River; 6.9 feet at Sapelo Sound Quarantine.

Condition of records satisfactory except as noted below:

Paul T. Whitney

Chief, Division of Tides and Currents.

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

Survey No. H5582

GEOGRAPHIC NAMES
GEORGIA

Chart No. 1241

Date. Jan. 17, 1935

Diagram No. 1241-2

Names approved Jan. 18. 1935. Helen M. Strong. R

*, 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.

O.K. Harlow Bacon

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	Not on H5582 - position is Lat. 31°-34½, Long. 81°-12½ - U.T.M.				
	Oldnor Island R OK HB	~~Same~~ U.S.Engrs. ~~Oldnor's Island & on T-721, H-916~~			
	Wahoo River ✓	"	Same on ✓	"	
	Wahoo Island ✓	"	"	"	
	South Newport River ✓	"	"	"	
	Mollclark River ✓	"	Mall Clark	T-721 Moll Clark H-916 Molclarke	Creek
	Johnson Creek R	Retain Johnson on Sheet. This may be changed if OGN decides in favor of Johnsons	Johnson's Creek ✓	Johnson's & on H-916,	T-721 T-1060
	St. Catherines Island ✓	"	St. Catherine's Island		
	North Newport River ✓	"	Same on T-721 & H-916		
	Timmons River ✓	"		"	
	Vandyke Creek ✓	"	"		
	Walburg Island ✓	"			
	Walburg Creek ✓	"		"	
	Note:				
	The Names on this Sheet were inked on the Sheet by the Field.				
	Barbour Island River R OK HB.	"	" Barbour's Island River	T-721 Barbor's I.	River
	Moss Island ✓	"			
	Swain River ✓	"	Not on Engrs.		

(M 100)

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5582 (1934) - FIELD NO. 13

South Newport River, Sapelo Sound, Georgia
Instructions dated December 5, 1933 (C. A. Egner)
Surveyed February and October, 1934

Hand Lead Soundings. 3 Point Fixes on Shore Objects.

Chief of Party - C. A. Egner.
Surveyed by - J. Mathis, R. E. Dille and C. A. Burmister.
Protracted by - A. P. C., V. F. S., G. F., W. F. K.
Soundings penciled by - George Fortune, V. F. Simmons.
Verified and Inked by - C. Stanley Lightbown.

1. Condition of Records.

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

a. Part of the soundings were to be plotted on adjacent sheets. This was noted in a general statement in the Descriptive Report but the records were not clearly marked to show the portions to be so plotted.

b. Signal names should have been written in for the first fix of each page instead of using the symbol "S". On some pages no signal names appear, all fixes being designated by S.

c. The day letter color was not the same in the records as on the sheet in some cases. This has been corrected by changing the color in the records.

d. No "Approval of Records" sheet was attached to the Descriptive Report.

The Descriptive Report is complete and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The plan and extent of development are in accordance with the instructions except that some of the minor creeks have not been sounded. Example: The creek entering Johnson Creek at lat. 31°38.4' shows 9 feet in depth at the entrance but no development. No statement is made relative to these creeks in the sounding records or the Descriptive Report. While it is assumed that these creeks are relatively unimportant, a line of soundings to show the limits of navigation would have been desirable.

3. Sounding Line Crossings.

Only a few cross lines were run. The soundings on these lines and on the parallel adjacent lines are consistent and the agreement in depth is satisfactory.

4. Depth Curves.

Within the limits of the survey the usual depth curves may be satisfactorily drawn including nearly all of the low water line except in some of the minor creeks where mid channel lines only were sounded.

5. Junction with Contemporary Surveys.

The junction with H-5552 (1934) is adequate. This sheet joins H-5585 (1934) and H-5586 (1934) on the west. The records slightly overlap on these three sheets, but the area is adequately developed and the junction in general is satisfactory.

The junction with H-5583 (1934) to the south in South Newport River will be considered in the review of that sheet.

6. Comparison with Prior Surveys.

a. H-659 (1858), H-916 (1857).

Since these surveys were made, the areas at the confluence of the several streams have changed materially. The channels have shifted in position, and the shoal areas are more extensive and have less water over them in many places. Away from the mouths of the streams the agreement with the present survey is fairly close though there are several changes in details. In general the entire area may be classed as changeable and the present survey should supersede the above surveys for charting purposes. Some of the more important differences noted are as follows:

(1) At the entrance to the Wahoo River the old survey shows a narrow 12 foot channel across the bar where the present survey shows a considerable area with a controlling depth of 10 to 11 feet. The point of Wahoo Island has receded about 200 meters and the shoal to the eastward is more extensive, forming a middle ground separated from the island by a channel with depths of 7 to 9 feet. The charted 5 foot shoal (detached) has become a part of this extensive middle ground which has one spot that bares at M. L. W.

(2) At the southern entrance to Johnson Creek, the shoal area on the north side of the channel has deepened 1 to 2 feet and there is now no bare spit as shown on the old survey. At Beacon No. 5 (lat. 31°36.25', long. 81°10.95') the area that bares is more extensive than shown on the earlier survey. Northward of Beacon No. 5 the channel is in fair agreement with the present survey. The earlier survey (H-916 of 1857) is on scale 1-20,000 and shows much less details than the 1934 survey.

(3) In the South Newport River the shoal area extending off Moss Island now shows several spots that bare at M. L. W. The shoal as represented by the 6 foot curve extends about 2/3 mile farther to the southeast.

At lat. 31°38', long. 81°13.6' the shoal area represented on the chart by depths of 8 feet, 11 feet and 12 feet has been entirely washed out and the deeper channel follows this shore of the river.

Details off the mouth of the Swain River have changed and the shoal area in this locality has formed a detached middle ground.

(4) In North Newport River, the general form of the shoal marked by Bn. 2 (lat. 31°40', long. 81°11.9) is in agreement with the present survey except that the positions of the spots bare at M. L. W. have changed and there are 4 to 5 foot depths immediately westward of the beacon instead of baring at low water.

(5) There is slightly less water over the shoal areas in Timmons River and Vandyke Creek but the channels have practically the same depths as shown on the present survey. The channel now passes southward of the island in Vandyke Creek, the northern channel being almost blocked at its western end. About $\frac{1}{2}$ mile of the creek entering Vandyke Creek in this vicinity was sounded during the 1857 survey (H-916) but not during the 1934 survey. (See par. 2 this review.)

b. H-2573 (1902).

This survey shows a line of soundings about 1 mile in length in the south part of the South Newport River. The area has changed and no part of this information needs to be considered in future charting.

7. Comparison with Charts No. 573 and No. 574.

a. Hydrography.

Within the area of the present survey the charts are based on surveys discussed in the foregoing paragraphs and on U. S. Engineers Surveys in the improved channels.

b. Controlling depths.

(1) The controlling depth for Johnson Creek is 8 feet as given by BP. 27030 (1933) and Chart letter 475/12 of 1934 gives the depth as 7.8 feet in May, 1934. The Descriptive Report gives 10 feet as the controlling depth but this depth can only be followed over a winding course through the critical areas and 8 feet should be considered as the controlling depth.

(2) The depth over the entrance range to Walburg Creek is 9 feet instead of 8 feet as charted from BP. 26731 (1932). Details of the shoal to the southward of the range have changed and the present survey shows no part bare at M. L. W.

c. Aids to Navigation.

The beacons are shown in their charted positions.

The buoy C1 (lat. 31°41.25', long. 81°11.1') is about 100 meters southeast of the charted position. This is close to the 12 foot curve instead of marking the 18 foot depth curve as shown on the chart but adequately marks the channel for navigation purposes.

8. Field Plotting.

The protracting in general was fair. A number of errors in positions were found and corrected. The transposing of two position numbers on a short line should have been noticed while plotting the soundings.

The plotting of soundings was not satisfactory. Almost 300 soundings were erroneously plotted, indicating a careless or lack of use of the spacing dividers. Reefs and bars were not plotted in accordance with the notes in the records.

9. Additional Field Work Recommended.

The survey in general is satisfactory. A number of minor creeks were not sounded and a doubtful sounding (see par. 10) would merit examination if a favorable opportunity offers.

10. Doubtful Soundings.

a. The 4 in Vandyke Creek in lat. 31°41.1', long. 81°13.2' may be an error of 1 fathom in recording or may be an obstruction (snag, etc.). The record shows a recorded sounding of 2 fathoms 0½ feet with tide reduction of 8 feet, pos. 143 to 144 1 day. The prior survey does not indicate any shoaling at this place.

11. Superseding Old Surveys.

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

H- 659 (1858) in part.
H- 916 (1857) " "
H-2573 (1902) " "

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

Inspected by - A. L. Shalowitz.

Examined and approved:

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

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

Chief, Section of Field Work.

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

Applied to new compilation drawing of chart 574 - Oct. 29, 1936 - J.F.W.
Applied to chart 573 - Dec. 1, 1936 g. H. S.