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

DESCRIPTIVE REPORT

~~Hydrographic~~ } Sheet No. 5593
Hydrographic } Field No. 25

State Georgia

LOCALITY
Vicinity of St. Catherines Sound

North Newport River-South Newport
River

1934

CHIEF OF PARTY
C. A. Egner

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5593

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. 25

REGISTER NO. 5593

State Georgia

General locality *Vicinity of* St. Catherines Sound

Locality North Newport River - South Newport River *Range*

Scale 1:10,000 Date of survey Sept. - Oct. 1934 ~~1922~~

Vessel Launch Patsy

Chief of Party C. A. Egner

Surveyed by R. E. Dille

Protracted by F. H. Lanham

Soundings penciled by F. H. L.

Soundings in ~~fathoms~~ feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by

Inked by J. A. McCORMICK

Verified by J. A. McCORMICK

Instructions dated Dec. 5, 1933 ~~1922~~

Remarks:

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET NO. 25 and 25a.

AUTHORITY:

This sheet was executed under Instructions dated December 5, 1933 covering operations of Field Party No. 23 on the Georgia Coast.

PURPOSE:

To provide a more comprehensive survey than has before been available.

LIMITS AND
JUNCTIONS:

This sheet and the sub-plan include all the upper reaches of the North and South Newport Rivers and side creeks. It is the most westerly sheet of that group covering the Newport and Timmons Rivers lying between St. Catherines Sound and Sapelo Sound. Sheet 25 joins Sheet 24 along the eastern border.

METHODS:

The hydrography was done from the launch PATSY. The usual standard methods were used. Nearly all the work was controlled by fixed positions with a sextant.

Sheet 25a and the extreme upper end of the South Newport River were controlled by boat sheet plotting. The area thus controlled was not of sufficient importance to warrant the establishing of additional control.

CONTROL
HORIZONTAL:

This area had no triangulation control established previous to this survey. Within the confines of this sheet are the western extremities of the scheme established by this party in this area and tied into the Coastal

Coordinating Scheme of 1932 by the CLAPP-TIMMONS line. A few topographic signals were built and used in conjunction with the triangulation for hydrographic control. The general open area of the main body of the sheet permitted the use of a few large signals.

CONTROL
VERTICAL:

Portable automatic gages, well located for the purpose of the survey, were established at South Newport, North Newport, Upper South Newport, and Upper North Newport. These gages are well compared with simultaneous observations at Fort Screven.

COMPARISON WITH
PREVIOUS SURVEYS:

There exists no basis for comparison since the area represented has never before been surveyed.

DANGERS AND
CONTROLLING DEPTHS:

The presence of sand bars in these rivers makes navigation somewhat difficult. In places the channels on the bends are very narrow and large bars, bare as much as 3 and 4 feet at low water, occupy much of the river. Care should be taken to follow the ebb tide bends at all stages of the tide. There are no submerged snags in the channel lines but many of the bars have snags on them, that are submerged at high water. There are no beacons or buoys on this sheet nor other aids to navigation.

GEOGRAPHIC
NAMES:

Those indicated are considered the best ones available.

TIDAL
DATA:

Is shown on the accompanying table.

STATISTICS:

Are shown on the accompanying table.

SIGNALS:

List of signals on this sheet are shown on the accompanying sheet.

Respectfully submitted,

George Fortune
George Fortune,
Surveyor

Approved and forwarded;

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

Hydrographic statistics to accompany sheet 25 -25a.

Date	Day	Vol.	Boat	Miles	Sds.	Pos.
10/30/34	a	1	PATSY	9.2	286	118
31	b	1	"	13.0	447	195
11/1/34	c	1	"	5.8	191	68
2	d	1	"	1.2	39	7
6	e	1	"	12.4	430	130
7	f	2	"	12.0	329	82
8	g	2	"	17.6	523	222
12	h	2	"	27.7	819	247
13	j	3	"	9.8	280	69
14	k	3	"	4.1	117	66
Totals, sheet 25				112.8	3461	1204

11/2/34	a	4	PATSY	5.0	176	63
14	b	4	"	6.3	193	99
Totals, sheet 25a				11.3	369	162

Signals on hydrographic sheet 25 and 25a

Triangulation Stations

Newport 1934	New 1934	Branch 1934
McIntosh 1934	North 1934	Payne 1934

Topographic stations

Pine	Twist	Flagg	Edge	Bend	Or
New	Mud	West	Beg	Ded	Tree
End	Leg	Dog	Sole	Lace	Hook
Eye					

F.D

Rac

February 18, 1935

Division of Hydrography and Topography:

✓ Division of Charts: Attention E. P. Ellis

Tide Reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 5593

Locality North Newport River -South Newport River, Georgia

Chief of Party: C. A. Egner in 1934
Plane of reference is mean low water reading
0.3 ft. on tide staff at South Newport
19.7 ft. below B.M. 1

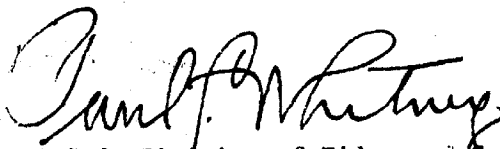
(2.1 on tide staff at North Newport (new)
(1.9 on tide staff at North Newport (old)
(7.7 ft. below B.M. 1

2.0 ft. on tide staff at Upper North Newport
9.3 ft. below B.M. 1
-1.0 ft on tide staff at Upper South Newport
9.0 ft. below B. M. 1

Height of mean high water above plane of reference is 7.3 feet at South Newport; 7.6 feet at North Newport; 6.7 feet at Upper North Newport; 7.6 feet at Upper South Newport

Condition of records satisfactory except as noted below:

It was necessary to smooth out some of the reducers where changes were made from one tide station to another.



Chief, Division of Tides and Currents.

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

Survey No. H 5593

GEOGRAPHIC NAMES
GEORGIA

Chart No. 1241

Date. Jan. 25, 1935

Diagram No. 1241-2

Names approved Feb. 26, 1935. *Allen Strong - Harlow Bacon*

* 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>North Newport River</u> ✓	Same -----			
	<u>Upper North Newport River</u> ✓	-----			
	<u>South Newport River</u> ✓	Same			
	Note: The Names on this sheet were inked on the sheet by the field.				

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. .5593

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

Number of positions on sheet	..1366
Number of positions checked127
Number of positions revised56
Number of soundings recorded	..3830
Number of soundings revised74
Number of signals erroneously plotted or transferred	..None

Date: *March 14, 1935*

Verification by *J. A. M. Cornick*

Time: *49 hours.*

Review by

Leffland

Time: *17*

Verifier's Report on H-5593.

Records:

The records conformed in most respects with the requirements of the Hydrographic manual. Field party did not record enough bottom characteristics.

Protracting:

Protracting was good in general but poor judgment was shown in adjustment of questionable positions.

Drafting:

Drafting was good. Soundings were spaced by eye, fairly well in most cases.

Crossings:

No cross lines were run.

Curves:

Curves came in fairly well although field party left several gaps in the work which made the drawing of curves difficult.

Junctions:

This sheet joins H-5585 which has not been verified at this date.

Comparison with Other Data:

No other data is available on this sheet.

Remarks:

Positions 65 to 68 C, Vol. 1 are listed as positions of islands. Topographic locations of these islands were taken in preference to these positions. Similarly positions 91 and 92 E are listed as an island. Photo compilation ⁽⁷⁵¹¹⁹⁾ shows no island

so positions were plotted as minus
{ A small island shown on the photographs falls between pos 91 and 92 E. It has been added to the compilation (75119) and also to the Smooth Sheet H-5593 (P. 34).

{ A small island shown on the photographs at pos. 79 f and extending toward pos 80 f has been added to the Compilation T-5119 and to the Smooth Sheet.

soundings. Similarly 79 and 80 f were plotted as minor soundings.

The boat sheet shows an island sketched at 31-42.4, 81-19.4. No positions were taken. Photo compilation shows no island. It was sketched on the smooth sheet from the boat sheet information. This has been referred to the Field

Positions 227-229 f are weak fixes. Line has been adjusted between 226 and 230 to conform as nearly as possible with the boat sheet.

Control on this sheet seems inadequate. The sub-sketch was done entirely without sextant fixes and the hydrographer has used poor judgment in spotting his positions in many cases. Only the most flagrant were adjusted. The others might have been right ^{and} but in the absence of anything ^{but} the boat sheet positions locations it was not considered justifiable to attempt wholesale changes.

March 14, 1935.

Submitted by,

J. A. Mc Cormick.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. H 5593 (1934)

North Newport River - South Newport River
Vicinity of St. Catherines Sound, Ga.
Surveyed in Sept.-Oct. 1934
Instructions dated December 5, 1933 (Natoma)

Hand Lead Soundings -- 3 Point Fixes and Positions Spotted from Boat Sheet.

Chief of Party - C. A. Egner.
Surveyed by - R. E. Dille.
Protracted and plotted by - F. H. Lanham.
Verified and inked by - J.A. McCormick.

1. Condition of Records.

The records are neat legible and conform to the requirements of the Hydrographic Manual except as follows:

a. No copy of landmarks for charts on form 567 accompanied this particular sheet.

b. Signal BEND was shown about 20 meters outside of the high water line. The soundings also indicated a displacement of the shore line. A check up of the air photo compilation (T 5119) revealed that the shore line was in error on both sides of the stream from Lat. $31^{\circ} 39.9'$, Long. $81^{\circ} 40.4'$. It has been revised on both the air photo compilation and the smooth sheet.

c. An islet was shown on the boat sheet in Lat. $31^{\circ} 42.38'$, Long. $81^{\circ} 19.42'$ but was not shown on the smooth sheet, was not noted in the sounding records nor was it shown on the air photo compilation. However, an islet was shown on the air photo ~~sheet~~ about 150 meters to the eastward and it is believed the two are one and the same islet. This matter has been referred to the field party. *(Air photographs location correct. applied to smooth sheet and Air Photo Compilation. See letter & tracing attached. May 15, 1935.)*

d. Two a & b day letters of the same color were shown on the sheet. Although in different locations, this practice is objectionable from the standpoint of future reference. Since the same boat was used other letters should have been assigned.

2. Compliance with Instructions for the Project.

The plan and extent of work conform to the instructions for the project with the following exceptions:

a. Additional lines should have been run in the North Newport River in approximate Lat. $31^{\circ} 42.7'$ between Long. $81^{\circ} 19.7'$ and $81^{\circ} 20.2'$ to enable a better delineation of the depth curves. This also applies to the vicinity of Lat. $31^{\circ} 41.85'$, Long. $81^{\circ} 19.5'$.

b. The work in the upper North Newport River can only be considered as approximate as there is no control other than the shore line.

3. Sounding Line Crossings.

No crosslines were run. Soundings on adjacent parallel lines are in good agreement.

4. Depth Curves.

In general the depth curves can be satisfactorily drawn. Where the development is insufficient they have been shown in a broken line.

5. Junctions with Contemporary Surveys.

The junction on the east with H-5585 (1934) is satisfactory.

6. Comparison with Prior Surveys.

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

7. Comparison with Chart 1241.

The chart contains no hydrography within the limits of the present survey.

8. Field Plotting.

The protracting and plotting were satisfactory and generally conforms to the requirements of the Hydrographic Manual.

9. Additional Field Work Recommended.

In view of the relative unimportance of this area, no additional work is recommended.

10. Superseding Old Surveys.

There are no old surveys to be superseded.

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

Inspected by - A. L. Shalowitz.

Examined and Approved:

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

B. Borden
Chief, Section of Field Work

L. O. Dolbert
Chief, Division of Charts.

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

Island shown here ^{thus} on boat sheet, but not shown on air photo compilation, the photographs, or the smooth sheet.

Island shown here on aerial photograph.

END ○

○ TREE

DED ○

BEG ○

○ MUD



Should be cut out altogether. Island in green is correct. Authority: R.E. DILLE, Surveyor.

Applied to Smooth Sheet
C. E. Egner

May 15, 1935

SECTION OF H-5593
BRANCH OF NORTH NEWPORT RIVER
FIELD SHEET NO. 25 SCALE 1:10,000

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

May 11th, 1935.

AND REFER TO No. 80-NM

80
C.K.G.
1935 MAY -15- AM 9:28

To: Lieut. C. A. Egner,
U. S. Coast and Geodetic Survey,
c/o Postmaster,
Apalachicola, Florida.

From: The Director,
U. S. Coast and Geodetic Survey.


Subject: Section of field sheet No. 25.

Enclosed is a sketch of a section of your field sheet No. 25, Branch of North Newport River, on which are shown one islet in blue and another in green. The islet in blue appears on your boat sheet but is not shown on the smooth sheet nor the photographs. The islet in green is from the air photo compilation.

Please advise whether one islet or two islets exist in this vicinity.

Inclosure


Acting Director.

Information as requested.


KTA