

5729

Form 504
Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

~~TOPOGRAPHIC~~ } Sheet No. 6
Hydrographic }

State Florida

LOCALITY

Santa Rosa Sound

Vicinity of Upper Pritchard Long Point

1935

CHIEF OF PARTY

I.E. Rittenburg

5729

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.
U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
APR 27 1935
REG. NO.

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. 6

REGISTER NO. **5729**

State Florida

General locality Santa Rosa Sound

Vicinity of Upper
Locality Lower Pritchard Long Point of Long 80-47.6

Scale 1:10,000 Date of survey Jan. & Feb., 1935

Vessel Shore Party 15

Chief of Party I. E. Rittenburg

Surveyed by A. O. Dority and W. N. Martin

Protracted by J. R. Walsh

Soundings penciled by J. R. Walsh

Soundings in ~~fathoms~~ feet

Plane of reference Mean Low Water

Subdivision of wire dragged areas by _____

Inked by _____

Verified by _____

Instructions dated Nov. 30, 1934, 19

Remarks: _____

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET FIELD # 6, 1935, SECTION OF SANTA ROSA SOUND FLORIDA. PROJECT H & T # 196.

1 Authority

This survey was made in accordance with instructions from The Director, dated Nov. 30, 1934. Field work was done during Feb. and March 1935.

2 Area Covered and Junctions.

The area covered by this sheet is that portion of Santa Rosa Sound Florida, lying between Lower Pritchard Long Point, Long. 86-49 W., and Long. 86 43.6 This sheet is joined by hydrographic sheet 5 on the west and sheet 7 on the east, both of this party, 1934 & 1935. The junction on the west with sheet 5 is satisfactory. The junction with sheet 7 is apparently satisfactory but as sheet 7 has not yet been completed this junction will be discussed in the descriptive report for sheet 7.

3 Control and Shoreline.

The basic triangulation control for this sheet was obtained from the triangulation of Lieut. Comdrs. L.O. Colbert and F.L. Peacock, 1930, 31. A correction factor was applied to all these geographic positions so that this sheet would be on the final adjusted N.A. 1927 Datum. This factor was obtained from station Beach 3, 1930 which was tied in by Lieut. G.L. Anderson, 1934. Supplemental stations necessary for the control of the hydrography were located by topographic methods on aluminum mounted Graphical Control Sheets field letters G, back and H front. On sheet H front between Long. 86-44 and 06 - 42 a little trouble was experienced in the locating of these signals due to Field 2 RM being wrong. This was noticed when the Graphical Control sheet and the Air Photo Reduction Sheet failed to agree in this area. Subsequently new triangulation stations Ritt, 1935 and Fueld 3, 1935 were located and established. From these two new stations cuts were taken to all signals visible. With these new cuts from triangulation stations the error in location was found and eradicated. Therefore signals between Carl and Bag on the north shore of the sound and signals Try and Sat on the south shore were shifted eastward to their correct positions as determined by the triangulation cuts mentioned above. This will be fully discussed in the descriptive report to accompany G. C. S. field Letter H front and Back. Several signals plotted on the east end of this sheet were not used in the hydrography on this sheet.

Shoreline was obtained from the air photo reduction party of Lieut. j.g. M.H. Reese, 1935 and is on the final adjusted datum. This hydrographic sheet was checked against the final compilations and no discrepancies were found. This sheet is on the final adjusted N.A. 1927 Datum and is on a scale of 1 : 10,000.

4 Methods

Standard hydrographic methods were used throughout this sheet. All positions were taken by means of 3 point sextant fixes. All soundings were taken by means of a 10 # hand lead or a sounding pole graduated in fathoms and feet. Soundings were taken as close to both shorelines as possible with a skiff and outboard motor attached.

5 Channels

From the western limits of this sheet to Bn. 16 at Long 86-44 the project depth through Santa Rosa Sound of 9 ft. can be easily carried with no difficulty. From Beacon 16 to beacon 13 this depth can be carried but only with difficulty. While the channel is marked to pass south of Beacon 16 better water is available north of the beacon.

6 Dangers.

The only dangers on this sheet are the protruding points of Upper and Lower Pritchard Long Points, marked by lighted beacons, and the other points, chiefly where the sound narrows at Long. 86-45.5 which is unmarked; the edges of the channels and the 1 fathom shoal N.E. of Bn. 16 with a least depth of 5 ft., and the shoals West of Bn. 13.

7 General and Comparison with Charts 1265 and 185.

In general the soundings agree with those charted on the above charts except between beacons 16 & 13 where considerable change has occurred due to shoaling and dredging. The 4 soundings shown in green ink just east of beacon 16 were protracted and plotted on this sheet from sheet 7, position 93-94 S day. These soundings filled in an apparent gap on this sheet and were therefore plotted on this sheet also. *Other soundings of overlap also in green ink.*

8 Landmarks for Charts and Coast Pilot Notes.

These are furnished as separate reports and are attached hereto.

9 Tides.

Tide reducers were obtained from portable automatic tide gages operated at Hyers Landing and at a point about 10 miles NE of Bridge across Santa Rosa Sound. Datum planes as furnished by your office are as follows;

10 Miles NE of Bridge	2.4 ft
Hyers Landing	2.8 ft.

10 Statistics

Statute miles of Sounding Lines	180.2
Number of soundings taken	6529
Number of positions taken	1656

These sheets and sounding volumes have been examined and approved.

I. E. Rittenburg, Lieut.,
Chief of Party,
Coast & Geodetic Survey.

HYDROGRAPHIC SURVEY NO. H 5729

Smooth Sheet 1

Boat Sheet 1

Sounding Records 5 Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals Page 2 Vol. 1

Landmarks for Charts (Form 567) Filed with Letter #313 (1935) ✓

Statistics Filed in D.R.

Approved by Chief of Party Approved but Not signed

Recoverable Stations Cards (Form 524) Filed with T 6251 a&b & T6252 a & b

Special Charts for Lighthouse Service ~~None~~ None Rec'd April 30, '35
(Circular Nov. 30, 1933)

Remarks _____

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. *H:5729*

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

Number of positions on sheet	<i>1656.</i>
Number of positions checked	<i>111..</i>
Number of positions revised	<i>0....</i>
Number of soundings recorded	<i>6529</i>
Number of soundings revised	<i>...8..</i>
Number of signals erroneously plotted or transferred	<i>.....</i>

Date: *July 6, 1935*

Verification by *G. H. Everett F. Knapp*

Inked by - H. V. Bennet (20 hrs)

Review by *W. A. Straw*

Time: *43½* } *63½*
36½ hrs

Time: *122½ hrs.*

REPORT ON H-5729

General Instructions.

The records have been neatly kept and conform to the requirements with the exception of omission of "Beginning and Ending of Lines."

Color of day-letter has not been used on title pages.

Field Drafting.

The plotting of positions and soundings was very well done and the delineation of the depth curves by the field plotter was satisfactory.

Curves.

Usual depth curves can be completed with exception of 0-foot curve.

Junctions with adjoining sheets have not been made as they are not verified to date.

NOTES.

Vol. I. pg. 59. Pos. 91C-92C. Note - "Beacon Mark 2m port." A straight line between positions would put the Beacon to the stbd of line. The line has been plotted as bending around beacon.

Vol. IV. pg. 4 Pos. 168 H. Note "Beacon #16 (Beak) 2m Port." Line as plotted puts the signal to stbd. of boat.

~~Signals East of Long. 86°-47' have not been verified as the Topo sheet covering this area has not been received in the office to date.~~

Vol. III pg. 25, Pos. 23G-24G Note "Sand spit 5m port." This has been inked on sheet but is not shown on B.S. or Air-Photo compilation sheet. Location: Lat 30-23.6, Long. 86-48.1

Lat 30-23.9, Long. 86-45.1 Pos. 159N-160N. Line plots over L.W. line with sdgs of 2 ft. Since this shoal is shown on Air-Photo compilation sheet the s'dgs were not plotted.

A disagreement in the dates on Topo sh. No. 6249 and Hydro Sh. for Δ stations Dune, Heck and Mark has been corrected to agree with office records.

Submitted July 8, 1935

J. H. Curlett

720

TIDE NOTE FOR HYDROGRAPHIC SHEET

May 16, 1935.

Division of Hydrography and Topography:

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

Tide Reducers are approved in
5 volumes of sounding records for

HYDROGRAPHIC SHEET 5729

Locality Upper Pritchard Long Point and vicinity, Santa Rosa Sound, Florida

Chief of Party: I. E. Rittenburg in 1935

Plane of reference is mean low water reading

2.4 ft. on tide staff at 10 mi. N.E. of Bridge at Pensacola, Santa Rosa Sound

6.6 ft. below B.M. 1

2.8 ft. on tide staff at Hyers Landing

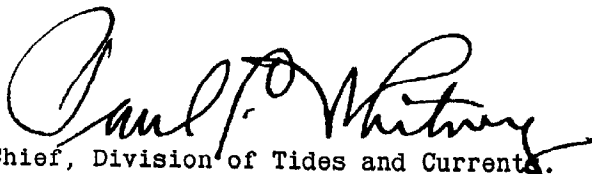
11.7 ft. below B.M. 1

3.4 ft. on tide staff at Fort Walton

2.4 ft. below B.M. 1

Height of mean high water above plane of reference is 1.4 feet 10 mi. N.E.
of Bridge at Pensacola and at Hyers Landing; 0.7 feet at Fort Walton.

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5729 (1935) - FIELD NO. 6

Vicinity of Upper Pritchard Long Point, Santa Rosa Pt., Florida
Surveyed in 1935

Instructions dated November 30, 1934 (I. E. Rittenburg)

Hand Lead and Pole Soundings.

3 Point Fixes on Shore Signals.

Chief of Party - I. E. Rittenburg.
Surveyed by - A. O. Dority and W. N. Martin.
Protracted by - J. R. Walsh.
Soundings penciled by - J. R. W.
Verified by - G. H. Everett and F. Knapp.
Inked by - H. V. Bennett.

1. Condition of Records.

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

- a. The color of the day letters in a few cases was not used on the cover label or title page of the sounding records. This was corrected in the office.
- b. No differentiation was made between regular topographic signals and triangulation points in the note pertaining to the plotting and checking of them on the smooth sheet.

The Descriptive Report is clear and comprehensive and satisfactorily covers all matters of importance.

2. Compliance with Instructions for the Project.

This survey complies with the instructions for the project.

3. Shoreline and Control Signals.

The shoreline originates with air photo compilation surveys T-5479 (1935) and T-5499 (1935). The topographic signals are from graphic control sheets T-6249b (1934-5) and T-6316b (1935).

4. Sounding Line Crossings.

The sounding line crossings are adequate and satisfactory.

5. Depth Curves.

The usual depth curves can be completely drawn except for the delineation of the low water line.

6. Junctions with Contemporary Surveys.

The junctions with H-5705 (1935) on the west and H-5805 (1935) on the east are satisfactory.

7. Comparison with Prior Surveys.

a. H-1107 (1871) and H-1108 (1871).

The depths shown on these surveys are in fair general agreement with the present survey. Minor changes in shore line are noted. There are no important shoals on these old surveys not fully developed on the present survey, and both H-1107 (1871) and H-1108 (1871) should be superseded by the present survey for charting purposes.

8. Comparison with Chart No. 185 and 1265.

a. Hydrography.

Within the area covered the chart is based on surveys discussed in paragraph 7 and contains no additional information that needs consideration in this review.

The surveys by the U. S. Army Engineers (Blueprints No. 28291 (1934) and No. 28292 (1934)), although noted on the current standard, have not as yet been applied to the chart. The soundings on these blue prints are generally one foot shoaler than those on the present survey, which is probably due to a difference in the plane of reference used by the U. S. Army Engineers and that used by this Bureau (see letter from Tide Division attached to Descriptive Report H-5723 (1935)). The development on these blue prints is sparse compared to the present survey, and within the limits of H-5729 (1935) they should not be used for charting.

b. Aids to Navigation.

The lighted beacon off Upper Pritchard Long Pt., lat. $30^{\circ} 23.83'$, long. $86^{\circ} 47.67'$, is located by the present survey in substantially the same position as charted.

c. Controlling Depths.

A note on chart 1265 states that the controlling depth through Santa Rosa Sound to Choctawhatchee Bay was $7\frac{1}{2}$ feet June, 1934, the authority for which is chart letter No. 475 (1934). This is superseded by chart letter 502 (1935) which gives the controlling depth as 7 feet as of April, 1935, which does not conflict with the depths on the present survey. See paragraph headed "Channels" on page 2 of Descriptive Report.

9. Field Plotting.

The field protracting and plotting are satisfactory and conform to the requirements of the Hydrographic Manual.

10. Additional Field Work Recommended.

This survey is complete and no additional work is required.

11. Superseding Old Surveys.

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

H-1107 (1871) in part.

H-1108 (1871) " "

12. Reviewed by - Leo S. Straw, September 13, 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

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

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

F. O. Colburn
Chief, Division of Charts.

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

GEOGRAPHIC NAMES

Date. April 30, 1935 FLORIDA

Survey No. H5729

Chart No. 1265 - 1935

Diagram No. 1265

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>Santa Rosa Sound</u> ✓/✓	Same			
	<u>Upper Pritchard Long Point</u> ✓/✓	Same			
	<u>Santa Rosa Island</u> ✓/✓	Same			
		APPROVED NAMES UNDERLINED IN RED H. L. Meyer			

Applied to chart 1264

Feb. 9, 1938

J.H.S.