

5479

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

DESCRIPTIVE REPORT

Topographic

~~Hydrographic~~

Sheet No. T-5479

State Florida

LOCALITY

Santa Rosa Sound

Harris to Lower Pritchard Long Point

~~Lower Pritchard Long Point~~

~~Long Point~~

1935

CHIEF OF PARTY

M. H. Reese

U. S. GOVERNMENT PRINTING OFFICE: 1934

5479

Applied to chart 1264 Feb. 7, 1938 g.H.S.
Applied to Chart 871 July 11, 1946 - M.M.H.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 8 **T5479**

REGISTER NO. T-5479

State Florida

General locality Santa Rosa Sound

~~Harris to~~

Locality Lower Pritchard Long Point to longitude 86° 47' 30" ²

Scale 1:10,869 Date of photographs June 26, 1934.

~~U.S.S.R.~~ Air Photo Compilation Party No. 24, Pensacola, Fla.

Chief of party M. H. Reese

Surveyed by See data sheet in the descriptive report.

Inked by H. C. Moore

Heights in feet above ----- to ground to tops of trees

Contour, Approximate contour, Form line interval ---- feet

Instructions dated June 7, 1934.

Remarks: Compiled on scale of 1:10,869 and enlarged and printed
on scale of 1:10,000 by photolithography. Scale factor 0.92.

- STATISTICS -

on

SHEET, FIELD NO. 8, REG. NO. T-5479

PHOTOS, NO. 19 TO NO. 37

DATE OF PHOTOGRAPHS 6/26/34 TIME 8:00 a.m.

BY _____ DATE
FROM _____ TO _____

ROUGH RADIAL PLOT	<u>E. P. Hernandez, Jr.</u>	<u>9/25/34</u>
SCALE FACTOR (0.92)	<u>E. P. Hernandez, Jr.</u>	<u>9/25/34</u>
SCALE FACTOR CHECKED	<u>M. H. Reese</u>	<u>9/25/34</u>
PROJECTION	<u>E. P. Hernandez, Jr.</u>	<u>10/18/34</u>
PROJECTION CHECKED	<u>R. E. Wagner</u>	<u>10/18/34</u>
CONTROL PLOTTED	<u>R. E. Wagner & H. C. Smith</u>	<u>10/18 & 12/14/34</u>
CONTROL CHECKED	<u>H. C. Smith & M. B. Gill, Jr.</u>	<u>10/18 & 12/15/34</u>
TOPOGRAPHY TRANSFERRED	_____	_____
TOPOGRAPHY CHECKED	_____	_____
SMOOTH RADIAL LINE PLOT	<u>H. C. Smith</u>	<u>12/16 - 12/18/34</u>
RADIAL LINE PLOT CHECKED	<u>E. P. Hernandez, Jr.</u>	<u>12/18/34</u>
DETAIL INKED	<u>H. C. Moore</u>	<u>12/19/34-1/8/35</u>
PRELIMINARY REVIEW OF SHEET	<u>E. P. Hernandez, Jr.</u>	<u>1/10/35</u>

Total area of sheet 25.7 sq. Statute miles
AREA OF DETAIL INKED 16.4 sq. Statute Miles (Land Area)

AREA OF DETAIL INKED _____ sq. Statute Miles (Shoals in Water Area)

LENGTH OF SHORELINE (more than 200 m. from nearest opposite shore)
28.7 Statute Miles

LENGTH OF SHORELINE (rivers and sloughs less than 200 m. wide)
6.5 Statute Miles

GENERAL LOCATION Santa Rosa Sound

LOCATION Lower Pritchard Long Point to ^{Harris} (Longitude 86°47'30" ²)

DATUM North American 1927 (Unadjusted) ✓

STATION Long 2 - 1910 - 34 ✓

Latitude 30°24' - 8.866" ^{08.735"} (269.0 m.) ✓
25.161" ^(671.6 m.) ✓
Longitude 86°47' - 25.324" (676.0 m.)

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. T-5479

FIELD NO. 8

I. GENERAL INFORMATION:

Instructions dated June 7, 1934.

The information used in the compilation of this sheet was obtained from notes and sketches made by the field inspection party in areas where the draftsman could not readily ascertain the nature of the terrain from the aerial photographs.

The mainland area of the sheet is composed of sand ridges covered with pine, scrub and live oak, magnolia, and palmetto. There are a number of low spots that are marshy in wet weather, drained by intermittent streams. These low areas are mostly covered with grass and clumps of brush and pine.

The portion of Santa Rosa Island shown is a large sand deposit, with brush and grass covered dunes along the northern shore. There are also some small marshy spots and ponds along that shore.

The range of normal tide in this area is approximately 1.2 feet. The difference between high and low water lines is so small that only the high water line as determined by the field inspection party was traced on the sheet.

This sheet was compiled from photographs Nos. 19 to 37, inclusive, taken by the Aero Service Corporation with a five-lens camera #HUI-33. The portion traced lies between Latitudes $30^{\circ}26'$ and $30^{\circ}23'$.

II. CONTROL:

(A) Sources.

The following sources of control were used in the compilation of this sheet:

- (a) Triangulation by G. H. R., 1910.
- (b) " " F. L. Peacock, 1930.
- (c) " " L. O. Colbert, 1931.
- (d) " " G. L. Anderson, 1934.
- (e) " " M. H. Reese, 1935.

The geographic positions of most of the stations used were on the North American Datum. To bring these geographic positions up to the North American 1927 Unadjusted Datum, a correction factor of -10.3 in forward Latitude and + 12.2 in forward Longitude was applied to them. The conversion factor was obtained by comparison with first order triangulation station Beach 3, 1930.

Also See Memorandum. Page 5

*Supplied from trip notes
position.*

(B) Errors.

No errors were found.

(C) Discrepancies.

No discrepancies were found on this sheet.

III. COMPILATION:

(A) Method.

The usual radial line method of plotting was used in the compilation of this sheet.

(B) Adjustment of plot.

The scale of the photographs was nearly uniform, and no more than the usual amount of distortion and tilt was encountered.

East Bay River, running along the northern limits of the sheet, was hard to define in places due to dim pictures. That and the distortion in that area on the wing prints may cause a certain amount of error.

(C) Interpretation.

Only the graphic symbols authorized by the Board of Surveys and Maps (1932) were used on this sheet, except for the symbol (§) used to denote brush.

A single broken line denotes a sand trail, a double broken line shows a passable motor road, and a full double line indicates a good motor road.

(D) Information from other sources.

None.

(E) Conflicting names.

There are no conflicting names in this area.

All the names indicated on the overlay sheet, except as stated in paragraph III (F) following, were obtained from the U.S. C. & G.S. charts of this area.

(F) New names.

The name "Wynne Haven Beach" was obtained from local information by the field inspection party, and

is in general use by the inhabitants of the vicinity. There is a signpost on Florida Highway No. 10 at this place labeled "Wynne Haven Beach". Composed of a number of cottages, filling station, store, bath-house, etc., it is a small settlement on the order of a summer camp for tourists and visitors.

IV. COMPARISON WITH OTHER SURVEYS:

The junctions of this sheet with sheet T-5477 and T-5478 on the West and sheet T-5499 on the East are satisfactory.

(See memorandum).

V. LANDMARKS:

Landmarks suitable for navigation are submitted on Form 567, by Lieut. I. E. Rittenburg's party.

VI. RECOMMENDATIONS FOR FURTHER SURVEYS:

To the best of my knowledge, this sheet is complete in all detail of importance for charting purposes, and no additional survey is required.

H. C. Moore
Submitted by: H. C. Moore,
Draftsman.

M. H. Reese
Approved by: M. H. Reese,
Chief of Party.

(5)

MEMORANDUM TO ACCOMPANY SHEET T-5479.

The shore line shown on this compilation has been checked against the G.C.S. sheet of Lieut. Rittenburg's and also against the smooth plotted hydrographic sheet executed under his direction. There were no differences between the two surveys except in the eastern limits of the sheet, beginning at Longitude $88^{\circ}44'$ and extending to the limits of the sheet. In this particular section there was considerable discrepancy between common points located by the plane table and by the compilation. We were unable to determine from the existing control what the errors were, and it was decided to establish additional stations on Santa Rosa Island in order to strengthen the control for the plane table and also for the photographs. Two new stations -- RITT and FIELD 3 -- were established, FIELD 3 being the reference mark of FIELD 2. It was at first thought that there might be an error in the computed geographic position of the reference mark of FIELD 2, but the location of this point as a main scheme station later proved that it was correct.

When I established station RITT, a series of directions were taken to all beacons and all topographic stations that had been established by Lieut. Rittenburg. These were plotted on his topographic sheet, and the information obtained disclosed the fact that his topographic locations of signals were in error, mainly due to the fact that there was insufficient control on the south shore of Santa Rosa Island and also due to the fact that FIELD 2 was plotted incorrectly on the topographic sheet. After this adjustment was made, the two surveys agreed very well. Therefore, the detail that is shown on the sheet is considered correct. All the marked U.S.E. stations and beacons shown on this sheet with the topographic symbol were scaled from the G.C.S. sheet of Lieut. Rittenburg.

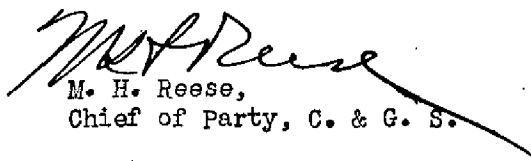
This compilation was originally compiled using triangulation data based on the field positions of the first order arc. When the first order arc was adjusted, it was discovered that there was a large discrepancy between the adjusted datum and the field datum. It was therefore necessary to change the projection on the compilation to the adjusted values. The amount and the manner in which this projection was changed are given below:

These values used on compilation

<u>STATION</u>	<u>N.A. 1927 FINAL POSITION</u> <u>(UNADJUSTED)</u>		<u>CORR'N</u>	<u>N.A. 1927 FIELD</u>
Eagles Nest 2	30 24 05.103	157.1	-3.5	160.6
	86 49 52.486	1401.1	-4.1	1405.2
Tuck 3	30 23 10.076	310.3	-3.7	314.0
	86 48 25.434	679.0	-3.9	682.9
Mary	30 24 34.005	1047.1	-3.6	1050.7
	86 48 23.762	634.3	-6.0	640.3

<u>STATION</u>	<u>N.A. 1927 FINAL POSITION</u>		<u>CORR'N</u>	<u>N.A. 1927 FIELD</u>
	<u>(UNADJUSTED)</u>			
Long 2	30 24 08.735	269.0	-4.0	273.0
	86 47 25.161	671.6	-4.4	676.0
Narrows 2	30 24 13.012	400.7	-3.4	404.1
	86 44 59.280	1582.4	-6.3	1588.7
Beach 3	30 23 24.456	753.1	-3.5	756.6
	86 46 17.525	467.9	-5.7	473.6

(Average Correction: Lat. -3.5; Long. -5.5)


M. H. Reese,
Chief of Party, C. & G. S.

Survey No. T5479

GEOGRAPHIC NAMES

Date, June 10, 1935

Chart No. 185 & 1265

Diagram No.

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

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

Under investigation. Q

Applied to 871 AVR. 6/24/46

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
✓ ✓	<u>East Bay River</u>	-----			
✓ ✓	<u>Lower Pritchard Point</u>	Same			
✓ ✓	<u>Upper Pritchard Point</u>	"			
✓ ✓	<u>Wynne Haven Beach</u>	-----	Same		
✓ ✓	<u>Harris</u>	Same			
✓ ✓	<u>Santa Rosa Sound</u>	"			
✓ ✓	<u>Menatee Point</u>	"			
✓ ✓	<u>Santa Rosa Island</u>	"			
✓ ✓	<u>Gulf of Mexico</u>	"			
✓ ✓	<u>The Narrows</u>				

J. R. ...

[Signature]

(M-13)

1 R 110

W. J. Woodz

REVIEW OF AIR PHOTO COMPILATION T-5479
Scale 1:10,000

Comparison with Graphic Control Surveys

1. T-6249a (Dec. 1934 - Jan. 1935) Scale 1:10,000

Minor differences noted in location of high water line around Lower Pritchard Long Point and around Upper Pritchard Long Point. Discrepancies are probably due to changing character of sand spits which form the above Points.

2. T-6316a (Jan. - Feb. 1935) Scale 1:10,000

No discrepancies noted.

3. T-6316b (Jan. - Feb. 1935) Scale 1:10,000

Alignment of dock (lat. $30^{\circ} 24.5'$, long. $86^{\circ} 43.9'$) in error on 6316. No major discrepancies in shoreline apparent.

All detail on the above Graphic Control surveys within the area of this compilation, with the exception of temporary plane table stations and magnetic meridians, is shown on this compilation.

Comparison with Contemporary Hydrographic Surveys.

1. H-5705 (Jan. - Feb. 1935) Scale 1:10,000

No discrepancies noted.

2. H-5729 (Jan. - Feb. 1935) Scale 1:10,000

Piling shown on hydrograph on north shore of Santa Rosa Island, (lat. $30^{\circ} 23.6'$, long. $86^{\circ} 47.4'$) not evident in photographs and not shown on compilation. At lat. $30^{\circ} 24.5'$, long. $86^{\circ} 43.9'$ the docks on H-5729 have been corrected to agree with this compilation. This detail had been transferred to H-5729 from this compilation prior to a correction made from the field inspection notes.

3. H-5805 (Feb. - April 1935) Scale 1:10,000

No discrepancies noted.

Comparison with Previous Topographic Surveys

1. T-1192 (1871) Scale 1:20,000

T-4241 (Nov. 1926 - Jan. 1927) Scale 1:20,000

The portions of the above surveys covered by the compilation are in general agreement with the compilation. Time has effected numerous minor changes in the character of the shoreline. Both erosion and building up of the shoreline

are in evidence. The compilation is complete and adequate to supersede the sections of the above topographic sheets which it covers.

Comparison with Charts 185 and 1265.

A dock shown on the north shore of Santa Rosa Island is gone.
(lat. $30^{\circ} 24.1'$, long. $86^{\circ} 43.6'$)

The compilation shows numerous small differences in the character of the shoreline.

All landmarks and beacons shown on the present charts are on the compilation.

General

The vegetation symbols are rather poorly drawn. The bush symbol is not standard. The limits and density of tree growth are not as well defined as would have been practicable by more careful drafting.

Dec. 2, 1936

Frank R. Galloway

✓ B.G. Jones

REVIEW OF AIR PHOTO COMPILATION NO. T-5479

Chief of Party: M. H. Reese

Compiled by: H. C. Moore

Project: Florida Compilation

Instructions dated: June 7, 1934

- ✓ 1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b, c, d, e, g and i; 26; and 64)
 - (a) Only the high water line has been indicated. (b) Yes.
 - (c) No bridges of importance to navigation. (d) Yes. (e) None.
 - (g) Yes. (i) Yes. (26) Yes. (64) Yes.
- ✓ 2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g, n)
No changes of importance.
- ✓ 3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d, e)
~~None used.~~ *Graphic Control Survey T6249 and T6316*
- ✓ 4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)
~~None used.~~ *were submitted.*
- ✓ 5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.
~~No other surveys have been made that are comparable to this sheet.~~ *Yes. See memo*
- ✓ 6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c, h, i)
Mentioned in descriptive report.
- ✓ 7. High water line on marshy and ^{sandy} ~~mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)
High water line indicated on field prints by field inspection party and used for tracing.

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

8. The representation of low water lines, ~~roads, coast lines and rocks~~, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

Mentioned in descriptive report. *under General Information.*

9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)

Yes, by Lt. I. E. Rittenburg's party. *Descriptions filed under T 6316, and T 649*

10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)

Yes, by Lt. I. E. Rittenburg's party.

11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)

No bridges of importance.

12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)

Mentioned in descriptive report.

13. The geographic datum of the compilation is N.A. 1927 Un-
reference station is correctly noted. *adjusted* and the

Yes.

14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)

Yes.

15. The drafting is satisfactory and particular attention has been given the following:

Yes.

1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report. *Brush symbol not standard and not desirable*

2. The degrees and minutes of Latitude and Longitude are correctly marked.


- ✓3. All station points are exactly marked by fine black dots.
- ✓4. Closely spaced lines are drawn sharp and clear for printing.
- ✓5. Topographic symbols for similar features are of uniform weight.
- ✓6. All drawing has been retouched where partially rubbed off.
- ✓7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

16. No additional surveying is recommended at this time.

17. Remarks:

18. Examined and approved;


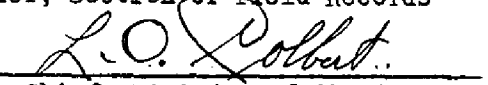

M. H. Reese
Chief of Party

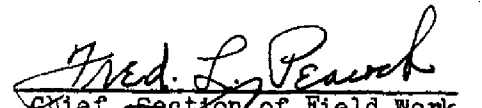
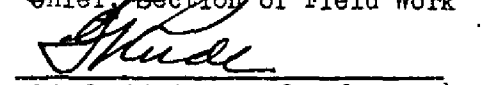
19. Remarks after review in office:

Reviewed in office by:

 ✓ J. G. Jones

Examined and approved:


Chief, Section of Field Records

Chief, Division of Charts


Chief, Section of Field Work

Chief, Division of Hydrography
and Topography.