

5474

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

DESCRIPTIVE REPORT

Topographic } Sheet No. T-5474
~~Hydrographic~~

State Florida

LOCALITY

~~Pensacola Bay & Santa Rosa Sound~~
~~Sharp Point and Vicinity~~
~~Red Fish Point to Fair Point~~

193 4

CHIEF OF PARTY

M. H. Reese

U. S. GOVERNMENT PRINTING OFFICE: 1934

5474

Applied to Chart 871 - July 12, 1946 - M.M.L. ^{10/12/46} 4/9/46

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. 3

REGISTER NO. T-5474

T5474

State Florida

General locality ~~Pensacola Bay & Santa Rosa Sound~~

Locality *Sharp Point and vicinity*
~~and Fish Point to Fair Point~~

Scale 1:10,869 Date of ~~Survey~~ ^{photographs} June 26 & July 11 1934.

~~1934~~ 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 F. A. Donadieu

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 1:10,000 by Photo Lithography. Scale factor 0.92.

- STATISTICS -

on

SHEET, FIELD NO. 3, REG. NO. T-5474

~~C-40~~ C-40

C-42

PHOTOS, NO.

78

TO NO.

87 ~~88~~

7/11/34

9:00 A.M.

DATE OF PHOTOGRAPHS

6/26/34

TIME

8:00 A.M.

BY

DATE

FROM

TO

ROUGH RADIAL PLOT

E. P. Hernandez Jr.
E. P. Hernandez Jr.

9/25/34

SCALE FACTOR (0.92)

E. P. Hernandez Jr.
E. P. Hernandez Jr.

9/25/34

SCALE FACTOR CHECKED

M. H. Reese
M. H. Reese

9/25/34

PROJECTION

E. P. Hernandez Jr.
E. P. Hernandez Jr.

10/8/34

PROJECTION CHECKED

H. C. Smith
H. C. Smith

10/8/34

CONTROL PLOTTED

H. C. Smith
H. C. Smith

10/15/34

CONTROL CHECKED

F. A. Donadieu
F. A. Donadieu

10/16/34

TOPOGRAPHY TRANSFERRED

TOPOGRAPHY CHECKED

F. A. Donadieu
F. A. Donadieu

10/17/34

SMOOTH RADIAL LINE PLOT

E. P. Hernandez Jr.
E. P. Hernandez Jr.

10/18/34

RADIAL LINE PLOT CHECKED

F. A. Donadieu
F. A. Donadieu

10/22-29/34

DETAIL INKED

E. P. Hernandez Jr.
E. P. Hernandez Jr.

11/19/34

PRELIMINARY REVIEW OF SHEET

AREA OF DETAIL INKED 11.4 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)

36.0 Statute Miles

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

5.2 Statute Miles

GENERAL LOCATION Pensacola Bay & Santa Rosa Sound

LOCATION Red Fish Point to Fair Point

DATUM North American 1927 (Unadjusted)

Latitude 30° 21' 38.986" (1200.5 m.)

STATION: Fair Point 1910-34

Longitude 87° 12' 12.691" (538.9 m.)

Station - Sharp Point 1910-1934
Lat. 30° 20' 29.092" (895.8 m.) (unadjusted)
Long 87° 07' 02.017" (53.9 m.)

*Incorrect
this should be
with another sheet*

39.082"

12.967"

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. T-5474

FIELD NO. 3

I. GENERAL INFORMATION:

Instructions dated June 7, 1934.

The information used in the compilation of this sheet was obtained from the notes and sketches on the field photographs and from members of the field inspection party in areas in which the draftsman could not determine the exact nature of the detail from the photographs.

The area covered by the upper part of this sheet consists of sandy land which is covered with trees, scrub oak, brush, palmetto and grass. The trees found in this area are mainly pine, oak and cedar.

The northern shore of the peninsula is lined with bluffs of up to twelve feet high. A few bluffs are also found along the southern shore. In the western part of the peninsula are found three shallow lakes or lagoons, and a small area of marsh land. Long sandy points are found in the area west of Longitude 87°09' and north of Latitude 30°21'.

The lower portion of this sheet covers part of Santa Rosa Island. This island is made up of sand and has very little vegetation besides grass and brush. In the central part of the island covered by this sheet there are a small bay and a pond. These are surrounded by a marshy area.

The range of tide along the shores is about 1.2 feet, and the difference between the high and low water mark is so small that the high water line, as determined by the field inspection party, was used for tracing shorelines.

All of the area covered by this sheet, except the part of Santa Rosa Island, was traced from photographs made with the Aero Service Corporation's HUI-33 five lens camera: photographs Nos. 78 to 98 running approximately East and West along Latitude 30°23'.

The part of Santa Rosa Island on this sheet was traced from photostats reduced to this scale from sheet No. 2. Sheet No. 2 was compiled as described in the report for that sheet. The photostat used was much distorted so that the accuracy of detail in that area should be greater on sheet No. 2 than on sheet No. 3.

Note this part thrown out in this office and put on in printing section from the original compilation. Bgg

II. CONTROL:

(A) Sources.

The following source of control was used in the compilation of this sheet:

- (a) Triangulation by Lieut. M. H. Reese, 1934.

The geographic positions of these stations were computed on the North American 1927 Datum.

The control in this area was adequate. *See also pages 5 and 6*

(B) Errors.

There were no errors in control used on this sheet.

(C) Discrepancies.

No discrepancies in the position of control were found except in some few cases where control stations were on extreme edges of photographs, in which instance ties were not very definite. In this case good control stations were held.

III. COMPILATION:

(A) Method.

The usual five lens radial line method of plotting was used in the compilation of the upper portion of this sheet and the single lens radial line method was used in the compilation of Santa Rosa Island.

(B) Adjustment of plot.

The photographs along Santa Rosa Island were free from excessive tilt and scale fluctuation, but the five lens pictures had fluctuation of scale and some tilt. Some trouble was experienced with the five lens pictures due to mounting. Some junctions to "B" prints were over water and, therefore, the wing prints had to be mounted according to collimating marks rather than matching of detail.

Photographs 92 to 98 were different in scale and a large amount of adjusting was required in the tracing of detail.

(C) Interpretation.

The graphic symbols used are the symbols as approved by the Board of Surveys and Maps (1932) except the symbol ($\frac{3}{4}$) which was used to denote brush.

(D) Information from other sources.

No information other than mentioned under "General Information" was used in the compilation of this sheet.

(E) Conflicting names.

There are no conflicting names on the different charts of this area. *See memo attached to this report*

IV. COMPARISON WITH OTHER SURVEYS:

The junction of this sheet on the East with sheet No. 5 is satisfactory.

In comparing this sheet with previous charts of this area, it is seen that the detail checks closely with Chart No. 490. The highway shown eastward on the peninsula had evidently not been built when that chart was made. The piers and buildings shown on chart No. 490, on Santa Rosa Island west of Longitude 87°10', have disappeared.

V. LANDMARKS:

Landmarks of value to navigation in this area are submitted ~~on form 567~~ by hydrographic 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.

F. A. Donadieu
Submitted by: F. A. Donadieu,
Draftsman.

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

Note :

The computations of Reeses local scheme of triangulation in this area and the adjustment of the older schemes ~~were-based~~ for use on the photo compilations were originally based on field computations on N. A. 1927 Datum of the First Order Arc. When the first order work was later adjusted in this office the values of the field computations were considerably changed as indicated on the opposite page. These adjusted values were furnished to Reese before completion of the compilations. Reese recomputed his local scheme of triangulation from the new adjusted values of the first order arc and obtained differences in this particular area as indicated on the opposite page. Since these differences were fairly constant over the area of any one compilation he shifted the projection of each compilation where there were plottable differences between his original field computations and the final field computations as based on the adjusted First Order Values.

B.G.J.

There was no topographic or graphic control in Santa Rosa Sound within the area of this compilation, there being sufficient triangulation so that the hydrography was all done from triangulation stations, except that a few hydro signals were cut in by sextant angles.

A review was made of the smooth plotted hydrographic sheet after the shore line on this compilation had been transferred to it, and no discrepancies were found between the shore line on the compilation and the hydrographic survey.

The shore line in Pensacola Bay was transferred to Lieut. Rittenburg's aluminum sheet before he did the graphic control. When the topographer established the signals and located them by plane table, he checked the shore line at each set-up and at each topo signal. No errors were found except in one or two cases, and these have been rectified.

The control on this sheet was first plotted on the datum obtained from the field first order computations. After ^{the office} adjustment was made, a large discrepancy was found to exist. This sheet was changed -2.9 (average) meters in latitude and -7.3 (average) in longitude, and all the stations have been checked to see that when this correction was applied they were correctly plotted.

The manner in which this factor was obtained is shown by the stations listed below:

<u>STATION</u>	<u>N. A. 1927 FIELD POSITION</u>	<u>CORR 'N</u>	<u>N.A. 1927 FINAL (UNADJUSTED)</u>
	(785.8)		(788.6)
Entrance 3	30 19 34.482 1061.8	-2.8	1059.0
1934	(695.2)		(702.3)
	87 11 33.980 907.8	-7.4	900.4
	(662.6)		(665.5)
Chimney	30 19 38.481 1184.9	-2.8	1182.1
1934	(975.2)		(982.2)
	87 10 23.500 627.8	-7.3	620.5
	(1293.8)		(1296.7)
Tank,			
Quarantine	30 20 17.984 553.8	-2.9	550.9
Station	(747.9)		(755.1)
1919-1934	87 09 32.001 854.8	-7.2	847.6
	(1550.8)		(1553.8)
Dump	30 21 09.637 296.8	-3.0	293.8
1934	(971.0)		(978.3)
	87 09 23.641 631.4	-7.3	624.1
	(316.0)		(318.7)
West Upright			
Pensacola	30 20 49.738 1531.6	-2.7	1528.9
Bridge	(1343.5)		(1350.5)
1934	87 09 09.703 259.2	-7.3	251.9
	(168.9)		(171.8)
Tank,	30 19 54.516 1678.7	-2.9	1675.8
Pensacola	(861.8)		(868.8)
Beach 1934	87 08 27.744 741.2	-7.3	733.9
	(948.9)		(951.8)
Sharp Pt.	30 20 29.186 898.7	-2.9	895.8
1910-1934	(1541.7)		(1548.8)
	87 07 02.283 61.0	-7.1	53.9

STATION	N. A. 1927 FIELD POSITION		CORR'N	N.A. 1927 FINAL (UNADJUSTED)
Day Mk.		(870.7)		(873.6)
Deer Pt.	30 20 31.724	976.9	-2.9	974.0
1934		(1544.6)		(1551.6)
	87 11 02.175	58.1	-7.3	50.8
Deer Pt. 3		(735.4)		(738.3)
1934	30 20 36.117	1112.2	-2.9	1109.3
		(1552.0)		(1559.0)
	87 11 01.898	50.7	-7.3	43.4
Deer Pt. Bn.		(1066.4)		(1069.2)
1934	30 20 25.369	781.2	-2.8	778.4
		(40.1)		(47.4)
	87 10 58.499	1562.6	-7.3	1555.3
Fair Pt.		(644.2)		(647.1)
1910-34	30 21 39.082	1203.4	-2.9	1200.5
		(1256.0)		(1263.3)
	87 12 12.967	346.4	-7.5	338.9
Fair Pt. Bn.		(122.7)		(125.6)
1934	30 21 56.017	1724.9	-2.9	1722.0
		(418.9)		(426.3)
	87 12 44.315	1183.5	-7.6	1175.9
Bald		(140.5)		(143.4)
1911-34	30 21 55.439	1707.1	-2.9	1704.2
		(1097.6)		(1104.6)
	87 07 18.901	504.8	-7.2	497.6
Engine		(612.1)		(615.3)
House,	30 23 40.121	1235.5	-3.2	1232.3
Pens. Br.		(1452.4)		(1459.4)
1934	87 11 05.600	149.5	-7.3	142.2
Creek 3		(1035.5)		(1038.5)
1934	30 22 26.372	812.1	-3.0	809.1
		(1233.2)		(1240.2)
	87 05 13.819	369.0	-7.0	362.0
East Dock		(1387.7)		(1390.8)
1934	30 22 14.934	459.8	-3.0	456.8
		(1514.4)		(1521.5)
	87 06 03.287	87.8	-7.1	80.7
Pier		(835.1)		(838.0)
1934	30 21 32.880	11012.5	-2.9	1009.6
		(830.7)		(837.7)
	87 08 28.898	771.8	-7.3	764.5
Telephone		(1055.3)		(1058.3)
Pole 1934	30 22 25.729	792.3	-3.0	789.3
		(586.5)		(593.8)
	87 10 38.037	1015.7	-7.3	1008.4
Red Fish		(85.9)		(89.3)
1934	30 23 57.209	1761.6	-3.3	1758.3
		(1205.2)		(1212.2)
	87 05 14.852	396.4	-7.0	389.4

(Avg. Corr'n (1:10.000) Lat. -2.9: Long. -7.3)

M. H. Reese

MEMORANDUM TO ACCOMPANY SHEETS NOS. 2 AND 3.

New geographic names:

Pensacola Quarantine Station.

Pensacola Beach.

These two new names are well established and are in use locally and officially.

Pensacola Quarantine Station is the official name of the station used by the U. S. Public Health Service.


M. H. Reese.

Survey No. T-5474

Date. June 13, 1935

GEOGRAPHIC NAMES

Chart No. 1265

FLORIDA

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

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
✓	<u>Pensacola Bay</u>				
	Point				
	Point				
	Old Navy Cove				
	Point				
	English Navy Cove				
✓	<u>U.S. Naval Reservation</u> (Point)				
✓	<u>Red Fish Point</u>	Redfish Pt. ✓			
	Grassy Point				
<p>NOTE: This sheet will be compiled together with T- 5473 to form the new T-5474 so for this reason the names verified on sheet T-5473 will be ^{are} an addenda to this name list.</p> <p>WJW</p>					
✓	<u>SHARP POINT</u>				
✓	<u>FISHING BEND</u>				
✓	<u>SANTA ROSA ISLAND</u>				
✓	<u>SANTA ROSA SOUND</u>				

REVIEW OF AIR PHOTO COMPILATION T-5474

Comparison with Contemporary Graphic Control Surveys

T-6319a (1935), 1:20,000

All information except temporary topographic signals and the magnetic meridian is shown on the compilation and agrees with the compilation.

Comparison with Contemporary Hydrographic Surveys

H-5822 (1935), 1:20,000; H-5668 (1935), 1:10,000

That portion of the shoreline on the compilation that appears on H-5822 and H-5668 was taken direct from the compilation and is in agreement with hydrographic signals and soundings.

Comparison with Former Topographic Surveys

T-701 (1859), 1:10,000; T-2159 (1895), 1:10,000; T-3792 (1920), 1:20,000

The portions of the above surveys covered by the compilation shows only minor time changes. The compilation is complete and adequate to supersede the portions of the above surveys which it covers.

Comparison with Chart No. 490

On the chart at lat. $30^{\circ} 22.1'$, long. $87^{\circ} 07.5'$, lat. $30^{\circ} 22.9'$, long. $87^{\circ} 06.2'$, and lat. $30^{\circ} 23.2'$, long. $87^{\circ} 05.1'$, ponds are shown. An examination of the photos does not reveal these ponds and no mention is made of them in the field notes. They have not been shown on the compilation. On the chart at lat. $30^{\circ} 22.3'$, long. $87^{\circ} 05.8'$ and lat. $30^{\circ} 22.3'$, long. $87^{\circ} 05.5'$, ruins of docks are shown. These can not be seen on the photos but are shown on H-5668.

Nov. 10, 1936.

L. C. Lande
✓ Bggones

REVIEW OF AIR PHOTO COMPILATION NO. T-5474

Chief of Party: M. H. Reese

Compiled by: F.A. Donadieu

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)
All necessary information for bringing the charts up to date is shown on this compilation.
- ✓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)
All changes as mentioned above were discussed in the descriptive report.
- ✓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)
There were no surveys used to supplement the photographic plot.
- ✓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)
~~No blueprints or maps from other sources were~~ *forwarded*
- ✓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 plane table or hydrographic surveys are available, *at the time sheet was forwarded to the office. See attached 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)
All of the above has been complied with.

- ✓7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)
The high water line was drawn on field photographs by the field inspection party and this was 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, ~~reco, coral reefs~~ sand bars and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

The low water line was not shown, as very little difference was found between high and low water marks, except in the case of sand bars and sand spits.

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)

There are no recoverable objects to be described on form 524.

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)

~~The above was complied with~~ By hydro 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)

The above has been complied with.

12. Geographic names are shown on the overlay tracing. *The above data was secured by the field inspection party by taking the measurements* 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)

The geographic names are shown on overlay tracing. No new names were obtained. Names used were obtained from U.S.C. & G.S. charts.

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

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

Junctions with adjoining compilation are in agreement.

15. The drafting is *fair* 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.

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:

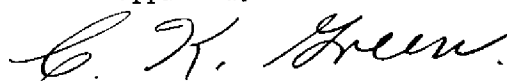

18. Examined and approved;




M. H. Reese
Chief of Party

19. Remarks after review in office:

Reviewed in office by: *L. C. Lande* *B. 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.