

5509

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. FATTON, DIRECTOR

## DESCRIPTIVE REPORT

Topographic  
~~Hydrographic~~

Sheet No. T - 5509

State Florida

### LOCALITY

~~Apalachicola Bay~~

Apalachicola and Vicinity

1935

### CHIEF OF PARTY

M. H. Reese

U. S. GOVERNMENT PRINTING OFFICE: 1934

5509

Applied in part to Ch. 183 - Oct. 1939 J.H.B.

" " " " 1114 Oct. 1939 J.H.B.

to PM 1262 - Dec. 1939

Applied to Chart No. 865 - 3/1/46 WCG. & WAB 5/27/46

" " " " 866 6/21/46 WAB.

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. ....

REGISTER NO. T-5509

183

State..... Florida .....

General locality..... ~~Apalachicola Bay~~ .....

Locality..... Apalachicola and Vicinity .....

Scale..... 1:20,833 ..... Date of <sup>photos</sup> ~~survey~~ Sept. 6 and 13, 1934

~~Vessel~~ Air Photo Compilation Party No. 24, Pensacola, Fla. ....

Chief of party..... M. H. Reese .....

Surveyed by..... See data sheet in descriptive report. ....

Inked by..... R. E. Wagner .....

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 1:20,833. Enlarged and printed  
by photolithography on scale of 1:20,000. Scale factor 0.96.

- STATISTICS -

on

SHEET, FIELD NO. \_\_\_\_\_, REG. NO. T-5509

PHOTOS, NO. 941 1039 1096 TO NO. 932 1057 1100 ✓  
 DATE OF PHOTOGRAPHS 9/6/34 9/13/34 9/19/34 TIME 8:15 a.m. 7:40 a.m. 8:35 a.m.

|                             | BY                          | DATE           |
|-----------------------------|-----------------------------|----------------|
|                             |                             | FROM TO        |
| ROUGH RADIAL PLOT           | <u>R. E. Wagner</u>         | <u>3/9/35</u>  |
| SCALE FACTOR (0.96)         | <u>M. H. Reese</u>          | <u>3/9/35</u>  |
| SCALE FACTOR CHECKED        |                             |                |
| PROJECTION                  | <u>E. P. Hernandez, Jr.</u> | <u>3/11/35</u> |
| PROJECTION CHECKED          | <u>S. S. Gill</u>           | <u>3/11/35</u> |
| CONTROL PLOTTED             | <u>R. E. Wagner</u>         | <u>3/13/35</u> |
| CONTROL CHECKED             | <u>C. C. Brown</u>          | <u>3/14/35</u> |
| TOPOGRAPHY TRANSFERRED      |                             |                |
| TOPOGRAPHY CHECKED          |                             |                |
| SMOOTH RADIAL LINE PLOT     | <u>R. E. Wagner</u>         | <u>3/23/35</u> |
| RADIAL LINE PLOT CHECKED    | <u>M. H. Reese</u>          | <u>3/23/35</u> |
| DETAIL INKED                | <u>R. E. Wagner</u>         | <u>4/19/35</u> |
| PRELIMINARY REVIEW OF SHEET | <u>E. P. Hernandez, Jr.</u> | <u>6/5/35</u>  |
|                             | <u>E. L. Fitch</u>          | <u>6/4/35</u>  |

TOTAL AREA OF SHEET 96.6 sq. Statute Miles  
 AREA OF DETAIL INKED 80.5 sq. Statute Miles (Land Area)  
 AREA OF DETAIL INKED 16.1 sq. Statute Miles (Shoals in Water Area)

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

55 Statute Miles

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

132 Statute Miles

GENERAL LOCATION Apalachicola Bay

LOCATION Apalachicola and vicinity

DATUM North American 1927 Adjusted

Latitude 29°43'12.656" (389.7 m.)

STATION LAUREL 1909-1934

(ADJUSTED)

Longitude 84°59'07.664" (206.0 m.)

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. T-5509

I. GENERAL INFORMATION:

Instructions dated June 7, 1934.

The area covered by this sheet includes a variety of topographic features. From the city of Apalachicola westward to the western limit of this sheet, there are sand beaches, marsh land and high bluffs. The vegetation along this shore is marsh grass, brush, palm, pine and cypress trees.

The area east of the city of Apalachicola and north of St. Vincent Sound to Apalachicola River is spotted throughout with cypress, gum and brush swamp.

The southeastern shore along the city of Apalachicola is marsh, which extends back from the shore to the tree line. The trees obscure the houses along this shore.

The commercial water front is composed of numerous fishing houses and several marine railways. Due to the construction of a bridge across Apalachicola Bay, the waterfront in this vicinity is a mass of debris.

The terrain to the north and east of the city of Apalachicola is delta land covered with marsh grass. Back from the Bay and along the rivers and streams are to be found numerous gum, cypress, pine and palm trees.

The Apalachicola Northern Railroad that serves Apalachicola is constructed on a fill and on wooden trestles throughout the swamp area.

Station CHIC was not used in the radial line plot. A short traverse was run from Station CHIC to the west gable of a house and this position was used as a control station.

The photographs of this area were made by the Aero Service Corporation with an H.U.I.-33 five-lens camera. Three flights were used on this sheet: a flight to the northwest from the city of Apalachicola, consisting of photos numbered 941 to 932 inclusive; a flight to the northeast from Green Point consisting of photos numbered 1039 to 1057 inclusive; and a flight to the northeast from Cat Point consisting of photos numbered 1096 to 1100 inclusive.

All topographic stations are marked with a 2.5 mm. circle.

The mean range of tide for Apalachicola Bay and vicinity is 1.5 ft.

## II. CONTROL:

### (A) Sources.

The sources of control on this sheet are:

- (a) Triangulation by Lieut. Geo. L. Anderson, 1934-35.
- (b) Triangulation, 1934-35; a theodolite and stadia traverse and a plane table traverse up Apalachicola River - by Lieut. C. A. Egner.

### (B) Errors.

*(Corrected) error in plotting made*  
~~Sheeps Mill tank did not hold in the radial line plot. The radial line intersection was 10 meters north and 15 meters west of the plotted position.~~

## III. COMPILATION:

### (A) Method.

The five-lens radial line method was used to compile this sheet.

### (B) Adjustment of plot.

There was no unusual adjustment made in this plot.

### (C) Interpretation.

No difficulties were encountered in interpreting the photographs with reference to the field inspection notes, the field inspection being adequate.

Standard approved symbols were used, with the exception of the symbol ( ? ) used to denote brush.

### (D) Information from other sources.

Information pertaining to the bridge across Apalachicola Bay was furnished by Lieut. C. A. Egner, which enabled the draftsman to locate same on this

sheet. The position of the New Forward Range Beacon was also obtained from Lieut. Egner.

(E) Conflicting names.

There are no conflicting names.

(F) New names.

All names, with the exception of Chipley Creek, are taken from the U.S.C. & G. Survey Chart No. 183. The name "Chipley Creek" is a well-established local name submitted by the field inspection party.

*(See memorandum)*

IV. COMPARISON WITH OTHER SURVEYS:

(a) This sheet joins sheet No. T-5505 on the northwest and sheet No. T-5510 on the east, both junctions matching satisfactorily.

(b) A comparison of this compilation with Chart No. 183 shows the following differences:

The area directly north of the city of Apalachicola and in the immediate vicinity of Sheips Mill has changed considerably. The large lake has filled, leaving a small lake; and two islands at the mouth of this lake have merged into one. The broken north shore of Apalachicola River, at approximate Lat.  $29^{\circ}45'$  and Long.  $85^{\circ}00'$ , has eroded away leaving a regular shore. *Spelling of Sheips correct - E.L. Fitch*

The delta of St. Marks River has changed very much. The river has cut two new channels through the marsh, at approximate Lat.  $29^{\circ}45'$  and Long.  $84^{\circ}57.8'$ , forming a marsh island.

At Lat.  $29^{\circ}45'$  and Long.  $84^{\circ}56'$ , the marsh has filled leaving a small bay instead of the fork-shaped bay as appears on Chart No. 183.

The delta of East River has filled, which has reduced the size of the bay at the delta, and has formed a small island.

V. LANDMARKS:

All information concerning landmarks will be furnished by Lieut. C. A. Egner.

*↑  
not furnished*

VI. RECOMMENDATIONS FOR FURTHER SURVEYS:

(a) To the best of my knowledge, this sheet is complete in every detail of importance for charting purposes, and further surveying is not needed.

(b) In the vicinity of Lat.  $29^{\circ}48'$  and Long.  $85^{\circ}00'$ , the shore line is shown with a broken line. This shore is indefinite because it was traced from the outer edge of a wing print.

Submitted by: *R. E. Wagner*  
R. E. Wagner,  
Draftsman.

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



MEMORANDUM TO ACCOMPANY SHEET NO. T-5509

The theodolite and stadia traverse run by Lieut. Egner up Apalachicola River would not hold with the radial line plot with the original positions as submitted. The radial line plot was re-run three times by different members of the party and each obtained the same results. Lieut. Egner was advised of this difficulty, and the positions were recomputed which differed considerably from the ones originally submitted us but which held in the radial line plot. It is therefore assumed that the River and the positions of the stations as now shown are correct.

The shore line along the waterfront of Apalachicola was rodded in by Lieut. Egner on a scale of 1:10,000. This shore line was reduced to the scale of this compilation and checked against the compilation. The information shown in this vicinity is now considered correct.

The shore line from Apalachicola westward to the limits of the sheet has also been checked against all topographic information executed by the topographic party, and all discrepancies have been rectified.

The bridge across Apalachicola River was taken from the aluminum topographic sheet. There is a topo station in the vicinity of Lat.  $29^{\circ}46.7'$  - Long.  $84^{\circ}55.1'$  for which we do not have a name. This station, according to information received from the topographic party, was to be marked, but as we do not have at hand the final executed sheet we are unable to state whether it was marked. This information can be checked when the smooth G.C.S. sheets are submitted by Lieut. Egner.


~~Station SHEIPS MILL TANK did not hold in the radial line plot, the amount of error being mentioned in the descriptive report, but the tank is shown on the compilation as obtained from the geographic position, as there is some doubt as to the proper spotting of this tank on the photographs.~~

The shore line at the east end of the bridge is shown broken, as it has been filled in since the photographs were taken.

NEW NAMES:

"Huckleberry Creek" and "Tilton, Florida" -- names obtained by field inspection party from local residents. The field inspection party reported checking up on these names and finding them in general use by local residents of Apalachicola.

"East Point, Florida" (small settlement) -- name obtained by field inspection party from a real estate operator who lives in East Point. Name reported in general use.

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

CHT. 865 W.A.B. 3/2/46

# GEOGRAPHIC NAMES

Survey No. F-5509

Date. 9/9/35

Chart No. 182-183

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>St Vincent Sound</u> |                           |                         |          |
| ✓      | <u>TILTON</u>                      |                         | ✓                         |                         |          |
| ✓      | <u>HUCKLEBERRY CREEK</u>           |                         | ✓                         |                         |          |
| ✓      | <u>CHIPLEY CREEK</u>               |                         |                           |                         |          |
| ✓      | <u>WEST BAYOU</u>                  | ✓                       |                           |                         |          |
| ✓      | <u>APALACHICOLA AIRPORT</u>        |                         |                           |                         |          |
| X ✓    | <u>ROUND BAY</u>                   | ✓ <u>Blounts Bay</u>    |                           |                         |          |
| ✓      | <u>EAST RIVER</u>                  | ✓                       | (change location of name) |                         |          |
| ✓      | <u>EAST BAY</u>                    | ✓                       |                           |                         |          |
| ✓      | <u>ST. MARKS RIVER</u>             | ✓                       |                           |                         |          |
| ✓      | <u>APALACHICOLA RIVER</u>          |                         |                           |                         |          |
| ✓      | <u>SHOAL BAYOU</u>                 | ✓                       |                           |                         |          |
| ✓      | <u>GODLEY'S BLUFF</u>              | ✓                       |                           |                         |          |
| ✓      | <u>ALLIGATOR BAYOU</u>             | ✓                       |                           |                         |          |
| ✓      | <u>APALACHICOLA</u>                | ✓                       |                           |                         |          |
| ✓      | <u>JOHN GORRIE MEMORIAL BRIDGE</u> |                         |                           |                         |          |
| ✓      | <u>EAST POINT (settlement)</u>     | ✓ <u>East point</u>     | (one word)                |                         |          |
| ✓      | <u>CAT POINT</u>                   | ✓                       |                           |                         |          |
| ✓      | <u>TOWHEAD ISLAND</u>              | ✓                       | <u>Towhead</u>            | (one word)              |          |
| ✓      | <u>GREEN POINT</u>                 | ✓                       |                           |                         |          |
|        |                                    | ✓ <u>East Point</u>     | (two words)               |                         |          |
|        |                                    | <u>Franklin</u>         |                           |                         |          |
|        |                                    | names approved 10/9/35  |                           |                         |          |
|        |                                    | KTA                     |                           |                         |          |

## REVIEW OF AIR PHOTO COMPILATION T 5509

Scale 1:20,000

### Comparison with Graphic Control Surveys

T 5509 is covered by the following Graphic Control Surveys, all executed in 1938: T 6308a (1:10,000), T 6308b (1:10,000), T 6310a (1:20,000), T 6310b (1:20,000), and T 6311b (1:20,000).

The shoreline agreement is good.

On T 6310b there were 21 described stations shown by the triangulation symbol. They are now shown by green circles. *Topographic*

On T 6311b the projection was in error. This is discussed in the review of T 6311b.

All detail on T 6308a, T 6308b, T 6310a, T 6310b, and T 6311b within the limits of the compilation is shown on T 5509 except the magnetic meridians, temporary stations, and a tide gage (on T 6311b).

### Comparison with Previous Topographic Surveys

#### (a) T 601 (1857), scale 1:20,000

T 601 covers only the area occupied by the City of Apalachicola and that in the immediate vicinity.

Since 1857 the shoreline of the Bay in the vicinity of longitude 85° 00' has receded about 100 meters.

Turtle Harbor, as shown on T 601, has decreased in size and is shown on T 5509 as a lake whose outlet is much smaller than as shown on T 601.

A bluff is shown on T 601 along the shoreline of Godleys Bluff peninsula but is not shown on T 5509.

T 5509 is adequate to supersede T 601 for its entire area except for the bluff noted above.

#### (b) T 646 (1857), scale 1:20,000

The only detail covered by T 646 and included in T 5509 is a short section of the north shore of Apalachicola Bay from Apalachicola west to Green Point.

The comparison with T 646 is covered under the comparison with T 601. (T 5509 is adequate to supersede T 646 except for the bluff.)

#### (c) T 647 (1857), scale 1:20,000

The area included on T 647 covers the entire south half of T 5509 from Green Point east to the limits of T 5509.

A discussion of the changes in the area immediately about Apalachicola City is covered under the comparison with T 601.

A bluff along the entire border of the peninsula is shown on T 647 but on T 5509 only two short stretches of bluff are shown near "Godleys Bluff".

T 5509 is adequate to supersede T 647 except for the bluffs noted above.

(d) T 648 (1857), scale 1:20,000

The area covered by T 648 includes practically the entire eastern half of T 5509 west to Apalachicola City. Most of this area is covered under T 601, T 646 and T 647 and the discussions under these surveys will apply to T 648.

In the area north of East Bay, and included on both T 5509 and T 648, the topography has remained unchanged. Numerous bluffs, in this area, are shown on T 648 but none are shown on T 5509.

T 5509 is adequate to supersede T 648 (within the limits of this compilation) except for the bluffs noted above and in the comparisons with T 601, T 646 and T 647.

(e) T 698 (1857), scale 1:20,000

The only detail shown on T 698 and included on T 5509 is the north shore of St. Vincent Sound from Green Point west to the limits of T 5509.

No appreciable change in shoreline exists between T 698 and T 5509. A bluff along the entire length of high ground is shown on T 698 whereas on T 5509 only a short stretch of bluff is shown in the vicinity of longitude 85° 05'.

T 5509 is adequate to supersede T 698 (within the limits of T 5509) except for the bluff noted above.

Comparison with Contemporary Hydrographic Surveys

T 5509 is covered by the following hydrographic surveys, all of which were executed in 1935: H 5792 (1:10,000), H 5794 (1:20,000), H 5797 (1:10,000), H 5817 (1:10,000), H 5818 (1:20,000), and H 5819 (1:20,000).

There are no conflicts with the hydrography.

An old boiler and a short line of piles at 29° 46.3', 85° 02.5' have been added to T 5509 from H 5797.

A tree lodged in Little St. Marks River on H 5797 at 29° 45.6', 85° 00.6' is not shown on T 5509.

Comparison with Charts

(a and b) Charts Nos. 182 and 183, scale 1:80,000

The upper reaches of Apalachicola River and the A.N.R.R. (within T 5509) are shown too far north and east on chart No. 183. The A.N.R.R.

bridge over Apalachicola River is a swing bridge instead of a fixed bridge as shown on chart No. 183.

Additional corrections to the charts as a result of this survey are discussed under "Comparison with Previous Surveys".

Landmarks and Aids

All landmarks and aids on the charts are shown on T 5509. Landmarks submitted with T 6308b are shown on this ~~survey~~ <sup>within this area</sup> ~~compilation~~.

The range lines (Chart letter 243-1935) have not been shown on T 5509.

August 10, 1935.

T. GOSHEN

*Frank G. Eshkin*

*B.G. Jones*

REVIEW OF AIR PHOTO COMPILATION NO. T-5509

Chief of Party: M. H. Reese

Compiled by: R.E. Wagner

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)

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)

Yes.

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)

Yes.

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 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.

Yes. See Memorandum.

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)

Yes.

7. High water line on marshy ~~and mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

Yes.

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, ~~reefs, coral reefs and rocks, and legends pertaining to them~~ is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

Due to the small difference in tide, the low water line was not shown.

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 Lieut. C. F. Egnor.*

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 Lieut. C. F. Egnor.*

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)

Yes.

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)

Yes.

13. The geographic datum of the compilation is N. A. 1927 and the reference station is correctly noted. (Unadjusted)

Yes.

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

Yes.

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

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:

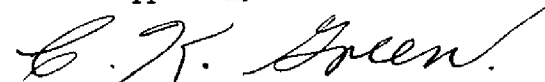

18. Examined and approved;



  
M. H. Reese  
Chief of Party

19. Remarks after review in office:

Reviewed in office by:  

Examined and approved:

  
Chief, Section of Field Records  
  
Chief, Division of Charts

  
Chief, Section of Field Work  
  
Chief, Division of Hydrography  
and Topography.