

5510

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

Topographic | Sheet No. T-5510  
~~Hydrographic~~

State Florida

### LOCALITY

St. George Sound

GREEN  
~~Can~~ Point to Carrabelle

1934

### CHIEF OF PARTY

M. H. Reese

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-5510

State Florida

General locality St. George Sound

Locality GREEN POINT  
~~St. Point~~ to Carrabelle

Scale 1:20,833 Date of photos Sept. 19, 19 34  
~~Survey~~

~~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 H. A. Butters, Jr.

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

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

Instructions dated June 7, 19 34

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

- STATISTICS -

on

SHEET, FIELD NO. \_\_\_\_\_, REG. NO. T-5510

PHOTOS, NO. 1056 TO NO. 1060  
1100 1120

DATE OF PHOTOGRAPHS Sept. 19, 1934 TIME 8:55 a.m.

	BY	DATE FROM TO
ROUGH RADIAL PLOT	<u>Richard E. Wagner</u> Richard E. Wagner	<u>3/9/35</u>
SCALE FACTOR (0.96)	<u>M. H. Reese</u> M. H. Reese	<u>3/9/35</u>
SCALE FACTOR CHECKED		
PROJECTION	<u>E. P. Hernandez, Jr.</u> E. P. Hernandez, Jr.	<u>3/23/35</u>
PROJECTION CHECKED	<u>H. C. Smith</u>	"
CONTROL PLOTTED	<u>R. S. French</u> R. S. French	<u>3/26/35</u>
CONTROL CHECKED	<u>H. C. Ingerson</u> H. C. Ingerson	<u>3/27/35</u>
TOPOGRAPHY TRANSFERRED		
TOPOGRAPHY CHECKED		
SMOOTH RADIAL LINE PLOT	<u>H. C. Ingerson</u> H. C. Ingerson	<u>4/2/35</u>
RADIAL LINE PLOT CHECKED	<u>H. A. Butters, Jr.</u> H. A. Butters, Jr.	<u>4/8 - 5/10/35</u>
DETAIL INKED	<u>H. A. Butters, Jr.</u> H. A. Butters, Jr.	<u>4/8 - 5/10/35</u>
PRELIMINARY REVIEW OF SHEET	<u>E. P. Hernandez, Jr.</u> E. P. Hernandez, Jr.	<u>6-8-35</u>

TOTAL AREA OF SHEET 92.5 sq. Statute Miles

AREA OF DETAIL INKED 83.4 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)  
16.5 Statute Miles

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

GENERAL LOCATION St. George Sound

LOCATION GREEN  
~~Cat~~ Point to Carrabelle

DATUM N. A. 1927 (Unadjusted)

Latitude 29°47'33.827" (1041.5 m.)

Longitude 84°45'00.536" (14.4 m.)

STATION ROYAL BLUFF 2 - 1909-34  
 (Adjusted) ✓

Unadjusted Ref. Station: MARSH 1935  
 (2<sup>nd</sup> ORDER)

{ Lat. 29°46' 06.845" [210.5 (1636.7)m.]  
 Long. 84° 47' 54.056" [1452.2 (159.5)m.] }

COMPILER'S REPORT  
FOR  
PHOTO TOPOGRAPHIC SHEET NO. T-5510

I. GENERAL INFORMATION:

Instructions dated June 7, 1934.

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

All names appearing on this compilation were taken from U.S. C. & G. Survey chart 182 or from notes on the field photographs.

The major portion of the area represented by this sheet is low and swampy. The standing timber has been cut off, except in the many impenetrable swamps and sloughs which are characteristic of this area.

With the exception of the town of Carrabelle, at the eastern limit of the sheet (Latitude  $29^{\circ}51'$  - Longitude  $84^{\circ}40'$ ) and along the immediate shore of St. George Sound, the area is practically uninhabited.

Roughly paralleling the Sound and extending inland about a mile, is a strip of sand hills or dunes from ten to twenty feet high. This area is characterized by pine, scrub oak and palmetto, except in swamps and sloughs where the growth is pine, cypress and brush.

One large, heavily wooded swamp extends across the sheet from Latitude  $29^{\circ}52'$  - Longitude  $84^{\circ}50'$  to Latitude  $29^{\circ}49'$  Longitude  $84^{\circ}45'$ . The field inspection party report it wooded with pine, cypress, hardwood, and brush.

The northeastern portion of the sheet is a low area, heavily wooded in spots, but generally grassy, with scattered pines. It is intermittently wet, being drained by tributaries of the Carrabelle and Crooked Rivers. Two abandoned logging railroad right-of-ways extend into this area to Latitude  $29^{\circ}54'$  - Longitude  $84^{\circ}40.5'$  and Latitude  $29^{\circ}54.2'$  - Longitude  $84^{\circ}43.5'$ .

In the eastern and northwestern portions of the sheet are the Carrabelle River and East Bayou, respectively. They and their tributaries form the principal drainage of the area. The river banks in their lower reaches are generally marshy in character. Some palms are found along the banks of East Bayou.

At several places on the compilation, notably at Latitude 29°54' - Longitude 84°42' and Latitude 29°49.5' - Longitude 84°43', there are groups of intermittent ponds. On the celluloid their shore line has been shown by a broken line. There are several ponds of a permanent nature: at Latitude 29°50.7' - Longitude 84°41.2' and Latitude 29°52' - Longitude 84°39.8'.

Florida State Highway No. 10, a paved macadam road, follows the shore line of St. George Sound except where it swings inland to the town of Carrabelle. From Carrabelle a graded dirt road extends northward to Harbeson City. In the vicinity of Carrabelle and throughout the hilly area along the Sound, there are numerous trails. Small and unimportant trails, which lead to no definite point, have not been shown on the compilation. Except as noted on the overlay tracing, streets in Carrabelle are of graded dirt.

Along the shore of St. George Sound and in the lower reaches of the Carrabelle River there are many bluffs varying in height from five to thirty feet, ~~as shown on the overlay tracing.~~

Due to the poor character of the photos, no attempt has been made to pick the buildings in Carrabelle or the shacks of the small negro settlement at Latitude 29°45.7' - Longitude 84°49.7'.

Because of the small range of normal tide in this area, approximately 1.7 ft., only the high water line has been shown.

The area covered by this sheet has been traced from photographs taken with Aero Service Corporation's H.U.I.-33 five-lens camera. Photos Nos. 1056-1060 and Nos. 1100-1120, the former an overlapping flight, have been used in tracing this sheet.

## II. CONTROL:

### (A) Sources.

- (a) Triangulation by Lieut. G. L. Anderson, 1934-35.
- (b) Triangulation and topography by Lieut. C. A. Egner, 1935.

The geographic positions of triangulation stations established by these parties were computed from the North American 1927 Datum (adjusted).

(B) Character.

The control in this area is very good.

(C) Errors.

No errors were found in the control used in compiling this sheet.

III. COMPILATION:

(A) Method.

The usual five-lens radial line method of plotting has been used in the compilation of this sheet.

(B) Adjustment of plot.

Most of the photos used in tracing this sheet were free from excessive tilt and their scale did not differ greatly from that of the projection.

(C) Interpretation.

The graphic symbols used are those approved by the Board of Surveys & Maps (1932) except the symbol (  $\xi$  ) that has been used to denote brush.

(D) Information from other sources.

No information other than that mentioned under "General Information" has been used in the compilation of this plot.

(E) Geographic names.

The name "Timber Island" is the name of the large island bounded on the north and east by the Carrabelle River, on the west by Postun Bayou, and on the south by St. George Sound. Formerly it was the name of the small island at the mouth of the Carrabelle River. This small island, due to the shoaling that has occurred and the dredging that has been done in the vicinity, is now joined to the large island and forms the southern end of the long, narrow peninsula in the eastern part of the island. According to the members of the field inspection party who obtained this information, the large island as described above is now known and accepted generally as "Timber Island".

(F) New names.

"Carrabelle Beach" is the name given by local residents of Carrabelle to a fine, sandy beach situated on St. George Sound about one and a half miles southwest of the latter town. In addition to bathing facilities and a dance hall, there are several cottages located on the beach. As its name is posted on signs at the beach and elsewhere, its identity is considered well and permanently established.

The names "Davis Island", "Postun Bayou" and "Boggy Jordan" are names of features in the vicinity of Carrabelle. They were transmitted to members of the field inspection party by the topographic party that operated in this area. As the latter group worked and lived in the locality for some time, its members had excellent opportunities to determine accurately the exact names of these features. Consequently, these names are believed to be correct and are recommended for adoption on future charts.

IV. COMPARISON WITH OTHER SURVEYS:

The junctions of this sheet with sheets Nos. T-5509 on the West and T-5511 on the East are known to be correct.

High water lines as determined by the radial line plot were found to check quite well with that traced from the topo sheets, except at the very entrance to the Carrabelle River and in the vicinity of the creek at Latitude  $29^{\circ}47.3'$  - Longitude  $84^{\circ}45.8'$ . At the former point the shore line (shown broken) was made to agree with that taken from the topo sheet on recommendation of the field inspection party because of its indefinite character. At the latter point the difference is undoubtedly due to either alterations in the shore line which may have taken place between the time of the photos and when the topographic survey was made or to differences in determination of the high water line.

The following topo stations failed to check the position determined by radial line intersection:

- (a) Station PID (d); topo position, shown on ~~tracing~~ radial intersection 10 meters south (Lat.  $29^{\circ}47'$  373 m. - Long.  $84^{\circ}45'$  1403 m.). (T-6312) *Compilation*
- (b) Station SCHOOL (d); topo position, shown on ~~tracing~~ radial intersection 8 meters southeast (Lat.  $29^{\circ}51'$  246 m. - Long.  $84^{\circ}39'$  1580 m.). (T-6314b) *Compilation*
- Plan table position accomplished. The high water line is correct.*
- (T-6310 position)*

These radial line positions have been rigidly checked and cannot be changed with reference to the rest of the plot. All other topo positions check their radial line intersections within the limits of accuracy of the plot.

The geographic positions of the topographic stations shown on the compilation were scaled from the aluminum sheets of the hydrographic party.

V. LANDMARKS:

Landmarks of value to navigation have been submitted by Lieut. C. A. Egner's party.

VI. RECOMMENDATIONS FOR FURTHER SURVEYS:

To the best of my knowledge, this sheet is complete in all details of importance for charting purposes, and no further surveys are needed at this time.

*H. A. Butters, Jr.*  
Submitted by: H. A. Butters, Jr.  
Draftsman.

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

*This compilation is considered correct within 0.3 to 0.5 mm.  
for indicated points and 0.3 to 0.8 m.m. for other detail.  
J. G. E.*



## Remarks

## Decisions

1		
2	Per Board decision 3/5/41, Cannabella AX is formed by junction of New and Crooked Rivers, and continues to St. George Sound.	
3		
4		
5		
6	<del>New location</del>	
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14	Board decision 3/5/41	
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cht. 265 WAB 3/14

GEOGRAPHIC NAMES  
Survey No. T-5510

cht. 265 WAB 3/1/4

GEOGRAPHIC NAMES  
Survey No. T-5510

Name on Survey	On Chart No. 182	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
	A	B	C	D	E	F	G	H	K
✓ Carrabelle	✓								1
✓ Carrabelle River	✓								2
✓ Crooked River	✓								3
✓ St. George Sound	✓								4
✓ Timber Island	✓								5
✓ Davis Island				✓					6
✓ Boggy Jordan				✓					7
✓ Carrabelle Beach				✓					8
✓ Royal Bluff	✓								9
✓ Marsh Point	✓								10
✓ Green Point	✓								11
✓ East Bayou	✓								12
✓ Postum Bayou				✓					13
New R.									14
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All names approved 9/11/35  
K.T. Adams

M 234

All names approved 9/11/35  
K.T. Adams

REVIEW OF AIR PHOTO COMPILATION T 5510  
Scale 1:20,000

Comparison with Graphic Control Surveys

T 6310a (1935), 1:20,000

Covers extreme western part of survey. No shoreline. All detail on T 6310a over the common area is shown on T 5510 except the magnetic meridian and temporary stations.

T 6311b (1935), 1:20,000

Covers shoreline from Green Point west. No major discrepancies in shoreline. The shoreline junction between T 6311b and T 6312 disagrees by a maximum of + 20 meters. T 6311b is correct. Two described stations on T 6311b were plotted on T 5510 by F. G. E. and checked by G. C. M.

All detail on T 6311b over the common area is shown on T 5510 except magnetic meridian and the temporary stations.

T 6312 (1935), 1:20,000

Covers the shoreline from Carrabelle Beach to Green Point.

Shoreline discrepancies in the following places:

- (1) Between long.  $84^{\circ} 42'$  and  $84^{\circ} 43'$
- (2) At inlet just west of Royal Bluff, long.  $84^{\circ} 45 \frac{1}{4}'$
- (3) At long.  $84^{\circ} 46'$
- (4) At Marsh Point, long.  $84^{\circ} 47 \frac{3}{4}'$
- (5) At Green Point, long.  $84^{\circ} 48 \frac{3}{4}'$  to  $84^{\circ} 49 \frac{1}{2}'$

Each triangulation station on T 6312 was originally plotted 4 to 12 meters too far north. Apparently they were corrected after the shoreline was rodged in as holding to the erroneous positions, 1, 4 and 5 agree fairly well. On the field photographs in several instances are measurements from various signals to the high water line. These measurements disagree with T 6312 by as much as 12 meters in some cases. Most of the signals are slats on pine trees and according to T 6312 are on the high water line in numerous instances. The field inspection for this survey interpreted the high water line outside these signals. Some of the differences between T 6312 and T 5510 are probably due to change but since the field inspection was made after the signals were marked it is obvious that the differences are also due to interpretation. The shoreline as shown on this survey is accepted as correct as of the date of the photographs, Sept. 1934. Additional measurements furnished by the field inspection have been added to the descriptions of recoverable objects on Form 524.

All detail on T 6312 over the common area is shown on T 5510 except the magnetic meridian, temporary stations and as mentioned above.

T 6314a (1935), 1:20,000

Covers extreme eastern part of compilation. No shoreline. One described station was transferred to this survey from T 6314a by F.G.E. and checked by G.C.M.

All detail on T 6314a over the common area is shown on T 5510 except the magnetic meridian and temporary stations.

T 6314b (1935), 1:20,000

Covers Carrabelle River. Several discrepancies exist between T 6314b and this survey, most of which are due to interpretation. The greatest difference (+ 50 meters) is in the east shore of the creek at  $29^{\circ} 50 \frac{3}{4}'$ ,  $84^{\circ} 10'$ . The compilation agrees with the photographs.

The northern shoreline of Boggy Jordan is apparently out in azimuth (max. 10 meters) on T 6314b, as the photographs check the compilation.

There are two ranges in this area. T 6314b shows the ranges projected seaward but this projected line is not shown on this survey as it was not located by a third point. The true bearing of the Carrabelle River range as given on T 6314b is  $323^{\circ} 45'$ .

The structures of the old range lights of the Carrabelle River range are located on T 6314b. They were not transferred to this survey as the lights have been discontinued.

All detail on T 6314b is on T 5510 except the magnetic meridian, temporary signals, the two old range light structures and the projected range lines.

Comparison with Previous Topographic Surveys

Misc. 13	(1853),	1:20,000	- Reconnaissance
T 647	(1856),	"	
T 648	(1857),	"	
T 697	(1858),	"	
H 1390	(1878),	"	- Topography of Crooked River

In general the shoreline of St. George Sound has receded + 100 meters since these old surveys. The greatest change has taken place at the entrance to Carrabelle River. The course of Postern Bayou has changed causing a change in the shape of Timber Island. Several bars extending into the Sound have disappeared.

T 5510 is adequate to supersede Misc. 13, T 647, T 648, T 697, topography on H 1390 over the common area except for contours.

Comparison with Contemporary Hydrographic Surveys

H 5795 (1935), 1:10,000  
H 5818 (1935), 1:20,000  
H 5819 (1935), 1:20,000

There are no conflicts with the hydrography.

Comparison with Chart 182

Corrections and additions to the chart as a result of this survey are discussed under Comparison with Previous Topographic Surveys.

All landmarks and aids to navigation (except buoys) on the chart in this area are shown on this survey.

May 8, 1936.

*Frank G. Enslin*

## REVIEW OF AIR PHOTO COMPILATION NO. T-5510

Chief of Party: M. H. Reese

Compiled by: H.A. Butters, Jr.

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. None. found necessary~~

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 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. Discussed in Descriptive Report.~~

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 <sup>high</sup> low water lines, ~~reefs, coral reefs, and rocks, and legends pertaining to them~~ is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

Only high water line 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)

*Filed under T-6311 b, T-6312, T-6314 a,*

Submitted by hydro party. *T-6314 b.*

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)

Submitted 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 bridge at Carrabelle has a clearance of 4 feet*  
Yes. *at M.H.W. when closed.*

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)

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:

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;


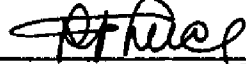
  
M. H. Reese  
Chief of Party

19. Remarks after review in office:

Reviewed in office by: 

Examined and approved:

  
K. T. Adams  
Asst Chief, Section of Field Records  
Division of Charts  
  
L. O. Solbert  
Chief, Division of Charts

  
Fred. L. Peacock  
Chief, Section of Field Work  
  
Arthur  
Acting Chief, Division of Hydrography  
and Topography.



Applied in part to Ch. 1114 - Oct. 1939, DKS

" to Ch. 1262 - Dec. 1939 - DKS

Applied to Ch. 1261 - 3/19/43 JHE

Applied in part to Ch. 865 - 3/4/46 WCG ✓ was 4/1/46