

5500

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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-5500
Hydrographic }

State Florida

LOCALITY

Choctawhatchee Bay Entrance

~~LONG. 86° 35' TO LONG. 86° 23'~~

1935

CHIEF OF PARTY

M. H. Reese

U. S. GOVERNMENT PRINTING OFFICE: 1934

Applied to chart 1264 2/3-38 g.K.S.
Applied to Chart 871 July 11, 1946 - M.M.R.
Applied to chart 870 June 1946 M.H. Hagen

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. 28

REGISTER NO. T-5500

See 185

State Florida

General locality Choctawhatchee Bay Entrance

Locality ~~Choctawhatchee Bay Entrance~~

Scale 1:10,000 Date of ^{photographs} survey 7/11 & 9/17, 19 34

~~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 F. A. Donadieu

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 and printed on 1:10,000 scale by photo-lithography. Scale factor 1.00.

- STATISTICS -

on

SHEET, FIELD NO. 28, REG. NO. T-5500
 C-58 C-62
 PHOTOS, NO. C-102 TO NO. C-104
 7/11/34 9:30 a.m.
 DATE OF PHOTOGRAPHS 9/17/34 TIME 4:15 p.m.

SUPPLEMENTARY PHOTOS - U. S. Navy Dept. - Jan. 9, 1935, 2:00 p.m.

	BY	DATE
	FROM	TO
ROUGH RADIAL PLOT	<u>F. A. Donadieu</u> F. A. Donadieu	<u>1/15/35</u>
SCALE FACTOR (1.00)	<u>F. A. Donadieu</u> F. A. Donadieu	<u>1/15/35</u>
SCALE FACTOR CHECKED		
PROJECTION	<u>F. A. Donadieu</u> F. A. Donadieu	<u>1/16/35</u>
PROJECTION CHECKED	<u>J. O. Coignett</u> J. O. Coignett	<u>1/16/35</u>
CONTROL PLOTTED	<u>F. A. Donadieu</u> F. A. Donadieu	<u>1/16/35</u>
CONTROL CHECKED	<u>C. Carter Brown</u> C. Carter Brown	<u>1/17/35</u>
TOPOGRAPHY TRANSFERRED		
TOPOGRAPHY CHECKED		
SMOOTH RADIAL LINE PLOT	<u>F. A. Donadieu</u> F. A. Donadieu	<u>2/5/35</u>
RADIAL LINE PLOT CHECKED	<u>M. H. Reese</u> M. H. Reese	
DETAIL INKED	<u>F. A. Donadieu</u> F. A. Donadieu	<u>2/6 - 2/9/35</u>
PRELIMINARY REVIEW OF SHEET	<u>S. S. Gill</u> S. S. Gill	<u>2/26/35</u>

TOTAL SHEET AREA 22.4 sq. Statute Miles
 AREA OF DETAIL INKED 7 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)
19.7 Statute Miles
 LENGTH OF SHORELINE (rivers and sloughs less than 200 m. wide)
1.0 Statute Miles

GENERAL LOCATION Choctawhatchee Bay Entrance

LOCATION Longitude 86°35' to 86°22'

DATUM North American 1927 Adjusted

Latitude 30°23'46.822" (1441.8 m.)

STATION Moreno 1934

Longitude 86°30'17.179" (458.6 m.)

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. T-5500

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 names appearing on this sheet were obtained from U. S. C. & G. S. Chart No. 185.

The area covered by this sheet consists of the eastern end of Santa Rosa Island and Moreno Point. The former is a sandy area having little vegetation except a few trees, some brush and grass. Some small marshy areas are found in the eastern extremity of the island. The latter area has some sandy areas, ponds, marsh, roads, trails and woodlands.

These two land areas are separated by the entrance channel to Choctawhatchee Bay. In this channel are found many sand bars and a large area of changeable shoals.

The highway on Santa Rosa Island is connected to that on Moreno Point by a fixed span bridge that was recently built.

The shoreline along the entrance to the Bay changes very rapidly, and a supplementary set of photographs was taken by the U. S. Navy and used for tracing the latest position of shoreline.

On the eastern end of Santa Rosa Island the solid line represents the high water line as determined from the Navy photographs taken on January 9, 1935. ~~The broken lines represent the high water line on previous photographs.~~

The Island on the eastern side of the channel is changing very rapidly. On the latest photographs it is shown divided into two parts, with a channel between the two parts. On previous photographs the whole area is joined.

The deeper part of the channels is shown by a broken line.

Shoal sand areas which may be above water at high tide are shown as sandy areas, ~~bounded by broken lines.~~

The pass known as East Pass, near Longitude $86^{\circ}29'$ and Latitude $30^{\circ}23'$, is also changing very rapidly, as may be noted by comparing photographs. This area was traced from the photographs taken by the Navy Department.

The range of normal tide along these shores is about 1.2 feet, so that only the mean high water line, as determined by field inspection, was shown. The difference between the high and low water is so small that it could not be shown at this small scale.

All of the area covered by this sheet was traced from photographs made by the Aero Service Corporation's single-lens camera: Photographs Nos. C-58 to C-62, inclusive, running approximately east and west along Latitude $30^{\circ}23'30''$; and Nos. C-102 to C-104, inclusive, running east and west along Latitude $30^{\circ}23'45''$. The supplementary photographs used, as explained in previous paragraphs, were also single-lens photographs.

II. CONTROL:

(A) Sources.

The source of control used in the compilation of this sheet is triangulation by M. H. Reese, 1934.

The geographic positions of these stations were computed on the North American 1927 Datum, ~~Adjusted~~ *unadjusted*

The control for this sheet is adequate.

(B) Errors.

There were no errors in control used on this sheet.

(C) Discrepancies.

There were no discrepancies in control used on this sheet.

III. COMPILATION:

(A) Method.

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

(B) Adjustment of plot.

The photographs used in tracing this sheet were free from excessive tilt and were very much to scale so that no great degree of adjustment was necessary in the tracing.

The scale of photographs did not fluctuate very much throughout this sheet.

(C) Interpretation.

The graphic symbols used are the symbols approved by the Board of Surveys & Maps (1932), except the symbol (§) that was used to denote brush.

(D) Information from other sources.

No information other than that 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.

IV. COMPARISON WITH OTHER SURVEYS:

The junction of this sheet on the West with sheet No. T-5499 is satisfactory.

In comparing this sheet with previous charts of this area, it is seen that the general detail checks in shape with that of Chart No. 185. ~~A close check of minor detail cannot be made because of the large difference in scale.~~

The main differences are: the bridge over the entrance to Choctawhatchee Bay that did not exist at the time of previous survey; the road running throughout the length of the sheet that had not been built.

Other noticeable differences are: the change of shape of the small island south of Moreno Point; the narrowing of the channel at East Pass; and the separation of the sand spit, at the northwest end of this island, from the main body of the island.

None of the docks, and few of the houses, shown on this compilation appeared on previous surveys.

V. LANDMARKS:

Landmarks of value to navigation in this area 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.

Submitted by: F. A. Donadieu,
Draftsman.

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

*This compilation is believed to have a probable error of
from 0.3 to 0.5 m.m. for interested points and 0.3 to 0.8 m.m.
for other details.*

MEMORANDUM TO ACCOMPANY SHEET NO. T-5500.

The shore line and the topographic information in the vicinity of the shore line within the limits of this sheet have been compared with the G.S.C. sheet and the hydrographic sheet executed by Lieut. Rittenburg. Very few differences existed, and these have been rectified.


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

Chart No. 185

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 870 *LET*, 5-27-46

[illegible]

REVIEW OF AIR PHOTO COMPILATION T-5500

Scale 1:10,000

Comparison with Graphic Control Surveys.

(a) T-6317a (1935) Scale 1:10,000.

T-6317a covers only the extreme western end of T-5500.

No discrepancies.

All detail shown on T-6317a within the limits of the compilation is shown on T-5500, except the magnetic declination and the temporary signals.

(b) T-6317b (1935) Scale 1:10,000.

T-6317b covers practically the same area as T-5500.

No discrepancies.

All detail shown on T-6317b within the limits of the compilation is shown on T-5500 except the magnetic declination and temporary signals.

Comparison with Previous Topographic Surveys.

(a) T-1587 (1872) Scale 1:20,000.

T-1587 has apparently been added to T-1269. A note on T-1587 states that the work has no relation to the projection and that it is oriented on T-2169 by means of two triangulation stations.

(b) T-1269 (1872) Scale 1:20,000.

T-1269 covers the eastern half of T-5500.

The greatest change in shoreline since 1872 is the south shore of Moreno Point which has built out in places as much as 700 meters.

Bluffs around Joes Bayou and the northwest shore of Moreno Point are not shown on T-5500.

T-5500 is adequate to supersede T-1269 for the area covered except for the bluffs mentioned above.

(c) T-1191 (1871) Scale 1:20,000.

T-1191 covers the western part of T-5500 including the entrance to Choctawhatchee Bay.

The greatest change since this 1871 survey has been the entrance to Choctawhatchee Bay. The seaward end of East Pass is now about a mile west of its 1871 position.

T-5500 is adequate to supersede T-1191 for the section covered.

Comparison with Contemporary Hydrographic Surveys.

(a) H-5806 (1935) Scale 1:10,000.

H-5806 covers the water area of T-5500.

There are no conflicts with the hydrography.

Comparison with Charts.

(a) Chart 185 Scale 1:80,000.

The village of Destin is shown on chart 185 about three quarters of a mile northeast of its true location.

At the entrance to Choctawhatchee Bay the unnamed island east of the channel has reduced in size and moved northwardly.

Other corrections to the present chart as a result of this survey are discussed under Comparison with Previous Topographic Surveys.

Landmarks.

No landmarks appear within the limits of the compilation on the chart. Landmarks recommended in chart letter 705 (1935) are shown on the compilation.

Aids to Navigation.

Lights and beacons on the chart are shown on this compilation. Chart letter 705 (1935) contains positions for recommended landmarks and aids.

Remarks.

Choctawhatchee Bay Entrance is of a very changeable nature. The latest photographs of this area (Sept. 17, 1934) show a small island extending southeast from the East Pass Bridge. Earlier photographs (July 11, 1934) show this small island joined with the unnamed island east of the Entrance. The hydrographic survey (H-5806, Jan.-April 1935) recorded soundings over parts of this small island. M. H. Reese states that he crossed the East Pass Bridge recently and noticed that this island had disappeared. The island has been removed from the compilation and in its place is shown a low water line as established by H-5806.

Sept. 5, 1935.

Frank V. Eversline

T. Goshen.

REVIEW OF AIR PHOTO COMPILATION NO. T-5500

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)

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)

Mentioned in 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)

None.

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.

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)

Yes.

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

The high water line was drawn as determined by the field inspection party.

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)

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

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.

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 the hydrographic party. ~~None submitted~~
Chart letter 705 (1935)

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 was shown on overlay tracing.

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)

All geographic names obtainable are shown on the overlay tracing.

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

Unadjusted

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

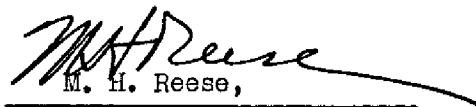
3. All station points are exactly marked by fine black dots.
4. Closely spaced lines are drawn sharp and clear for printing.
5. Topographic symbols for similar features are of uniform weight.
6. All drawing has been retouched where partially rubbed off.
7. Buildings are drawn with clear straight lines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

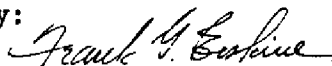
17. Remarks:

18. Examined and approved;

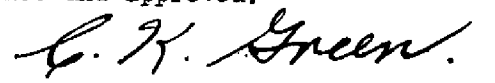
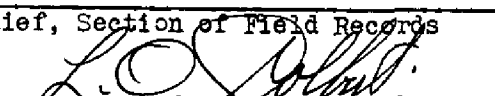

M. H. Reese,
Chief of Party

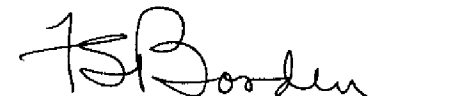
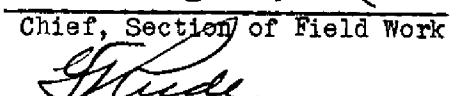
19. Remarks after review in office:

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.