DESCRIPTIVE REPORT

Topographic
Hypsometric
Sheet No. T-5493

State Alabama - Florida

LOCALITY

Passama Back
Red Bluff to Grass Point

Cummings Point

Date of photo 1934

CHIEF OF PARTY

M. H. Beene
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

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. 22

REGISTER NO. T-5493

State...Alabama - Florida

General locality...Perdido Bay

Locality...Red Bluff to Grassy Point Cummings Point

Scale...1:10,638 Date of survey...7/11 & 16, 1934

Surveyed...Air Photo Compilation Party No. 24, Pensacola, Fla.

Chief of party...M. H. Haase

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

Inked by...S. S. Gill & 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 1934

Remarks: Compiled on scale of 1:10,638; enlarged and printed by photolithography on scale of 1:10,000. Scale factor 0.94.
- STATISTICS -

on

SHEET, FIELD NO. 22, REG. NO. T-5493
230
PHOTOS, NO. 309
365
TO NO. 373

DATE OF PHOTOGRAPHS 7/11/34  TIME 4:00 p.m.

BY

DATE

FROM

TO

ROUGH RADIAL PLOT

SCALE FACTOR (0.94)

SCALE FACTOR CHECKED

E. F. Hernandez, Jr.
12/12/34

PROJECTION

H. C. Smith
12/12/34

PROJECTION CHECKED

M. B. Gill
12/13/34

CONTROL PLOTTED

S. S. Gill
12/13/34

CONTROL CHECKED

TOPOGRAPHY TRANSFERRED

TOPOGRAPHY CHECKED

S. S. Gill
12/14 - 12/29/34

SMOOTH RADIAL LINE PLOT E. F. Hernandez - S. S. Gill

RADIAL LINE PLOT CHECKED

Shoreline: S. S. Gill
1/2/35

DETAIL INKED

Dutail: H. C. Smith
1/15 - 4/23/35

PRELIMINARY REVIEW OF SHEET

S. S. Gill
4/24/35

TOTAL AREA OF SHEET 27.3 sq. Statute Miles

AREA OF DETAIL INKED 19.3 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)
15.2 Statute Miles

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

GENERAL LOCATION Perdido Bay

LOCATION Red Bluff to Grassy Point - Cummings Point

DATUM North American 1927 Adjusted

Latitude 30°24'49.931" (1537.5 m.)

STATION Lillian 1934

Longitude 87°26'32.564" (869.5 m.)
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 the sheet were taken from U.S. C. & G. Survey Chart No. 1265 or from field inspection notes.

The area covered by this sheet includes the town of Lillian and the northern part of Perdido Beach. The more important feature of the sheet is the shore line of Perdido Bay.

The western part of this area is generally wooded with pine and scrub oak. It is drained by Soldier's Creek and its tributaries, the latter being characterized by heavily wooded sloughs and marshy areas.

The north-central portion of this sheet has many farms and cultivated areas.

Two heavily wooded streams drain into Perdido Bay at about Latitude 30°21.6' - Longitude 87°27.9' and Latitude 30°23.2' - Longitude 87°27.2', respectively.

Along the western shore of Perdido Bay there are several sand bluffs from ten to twenty feet high.

The extreme northeastern part of this sheet is a low marshy area. Its vegetation is scattered pines, brush and grass.

The new Lillian Bridge (fixed), Latitude 30°24.3' - Longitude 87°25.6', is of the trestle type having a reinforced concrete deck supported on wooden piling. Its greatest clearance (13 feet) is at the main channel. The bents are 40 feet wide at water line. Reference plans for the vertical clearance not given. Bay.

Paradise Inn and vicinity are known locally as "Paradise Beach". The inn, beach, adjoining land and houses are a recreational center. (Approximate position Latitude 30°24.1' - Longitude 87°25.3'.)
The southeastern portion of the sheet is a generally wooded area having very little cultivated land.

The range of normal tide in this area is less than a foot and the difference between high and low water is so small that only the high water line was used in tracing shore lines.

All the area covered by this sheet was traced from photographs taken with Aero Service Corporation's H.U.I.-33 five-lens camera. Photos Nos. 230-236, 309-329 and 365-373, three overlapping flights, were used in tracing.

II. CONTROL:

(A) Sources.

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

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

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

The control for the area covered by this sheet is good.

(B) Errors.

There were no errors in control used on this sheet.

(C) Discrepancies.

No discrepancies were found in the compilation of this sheet.

III. COMPILATION:

(A) Method.

The usual five-lens radial method of plotting was used in compiling this sheet.

(B) Adjustment of plot.

Most of the photographs used in the tracing of this sheet were free from excessive tilt and their scale did not differ greatly from that of the projection. The scales of the various photographs were reasonably uniform throughout the area.
(C) Interpretation.

The graphic symbols used are those approved by the Board of Surveys and Maps (1932), with the addition of the symbol (ibbean) that was used to denote brush.

The limits of sand bars and shoals as determined from the photos were shown as broken lines. Low water line and approximate low water line changed to .

(D) Information from other sources.

No information other than that mentioned under "General Information" was used in the compilation of this sheet, except the name "Pogran" which was shown on a "Sectional Map of Northwest Florida" (The Scott Organization 1931) as pertaining to the area between Tarkiln Bayou and Perdido Bay. No mention of this name was made by the field inspection party.

(E) Conflicting names.

No conflicting names were found on the different charts of this area.

IV. COMPARISON WITH OTHER SURVEYS:

The junctions of this sheet with sheets Nos. T-5495 & T-5496 on the west, T-5492 on the north, T-5491 on the east, and T-5494 on the south, are satisfactory.

A comparison of this sheet with Chart 1265 shows no discrepancies in the general shapes of bays, inlets, etc., although an exact check could not be made due to the difference in scale.

V. LANDMARKS:

Landmarks of value to navigation are submitted 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 surveys are needed.

Submitted by: H. A. Bittors, Jr.
Draftsman.

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

This compilation is considered correct within 0.36\(\text{m}\) for interested points and 0.36\(\text{m}\) for other detail.
MEMORANDUM TO ACcompany SHEET NO. T-5493.

The shore line and all topographic information near the shore line were transferred to Lieut. Rittenburg’s topographic sheet. The topographer was instructed to check the shore line and topographic features at each plane table set-up and at each topo station located. No errors were found in the shore line as obtained from the photographs.

The area from Paradise Beach to Station Dupont, on the east shore of Perdido Bay, was reflown by the Naval Air Station, using a single-lens camera. It was necessary to rephotograph this area due to the five-lens photos being too hazy to compile accurately the detail along the shore line. The regular five-lens radial line plot was made, and, afterwards, the single-lens pictures obtained from the Naval Air Station were enlarged to the exact scale of the projection, and the detail shown in the vicinity of the east shore of Perdido Bay was transferred from the photographs obtained from the Naval Air Station.

These Navy photographs are not filed in the office. 4/11/36.

M. H. Reese,
Chief of Party, C. & O. S.
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Approved by the Division of Geographic Names, Department of Interior.  
Referred to the Division of Geographic Names, Department of Interior.  
Under investigation.
Comparison with Graphic Control Surveys

T 6318a (1935), 1:20,000

No discrepancies. A pile at lat. 30° 22', long. 87° 27 1/3' was transferred to this survey from T 6318a by F. G. E. and checked by L. S. S.

All detail on T 6318a over the common area is shown on T 5493 except temporary stations.

Comparison with Previous Topographic Surveys

T 1981 (1890-91), 1:10,000
T 2034 (1891), 1:10,000

There have been no major changes in this area since the 1891 surveys except for the construction of the Lillian Bridge. Numerous bluffs are shown on these old surveys. T 5493 shows all bluffs of charting importance.

T 5493 is adequate to supersede T 1981 and T 2034 over the common area except for contours.

Comparison with Contemporary Hydrographic Surveys

H 5833 (1935), 1:20,000

There are no conflicts with the hydrography.

Stub piling in Tarkiln Bayou on H 5833 is not shown on the compilation.

Comparison with Chart No. 1265

Corrections and additions to the chart as a result of this survey are discussed under Comparison with previous surveys.

There are no lights or beacons in this area. All landmarks on the chart are shown on this survey. Chart letter 651 (1935) contains landmarks for this area.

April 22, 1936.

Frank G. Erskine
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 charts up to date is shown on this compilation.

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.

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.

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.

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.

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.

High water line on marshy and sandy coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)
High water lines were drawn as determined.

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, sand bars, and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

See descriptive report.

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 15, 1934, Landmarks for Charts, compiled with. (Par. 16d, e; and 60)

Landmarks submitted by Lieut. Rittenburg’s party. (Unadjusted) 651(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)

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)

All names available are shown on overlay tracing.

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 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;

[Signature]

M.A. Reese
Chief of Party

19. Remarks after review in office:

Reviewed in office by:

[Signature]

Examined and approved:

C. F. Green
Chief, Section of Field Records

Fred. L. Peacock
Chief, Section of Field Work

K. T. Adams
Acting Chief, Division of Charts

Chief, Division of Hydrography and Topography.