

5537

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-5537
~~Hydrographic~~

State Alabama

LOCALITY

Mississippi Sound

Dauphin Island
(Central Part)

~~Dauphin I. Bay to Long, 88°14'~~

1934~~5~~

CHIEF OF PARTY

M. H. Reese

5537

Applied to Ch. 1260 - Apr. 1936 - J. S. Gault
Applied to Ch. 073 A/R

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-5537

State Alabama

General locality Mississippi Sound

Locality Dauphin Island (Central Part)
~~(Dauphin I. Bay to Long, 88°14')~~

Scale 1:10,000 Date of ^{photos}~~survey~~ June 23, 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 E. P. Hernandez, 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 1:10,000 scale. Printed by photo-

lithography on 1:10,000 scale. Scale factor 1.00.

...

*Blueprint mfg scale 1:10,000
filed 2/28/36*

- STATISTICS -

on

SHEET, FIELD NO. _____, REG. NO. T-5537

PHOTOS, NO. _____ C-18 C-23
C-27 TO NO. C-28

DATE OF PHOTOGRAPHS June 23, 1934 TIME 9:00 a.m.

	BY	DATE FROM TO
ROUGH RADIAL PLOT	--	
SCALE FACTOR (1.00)	--	
SCALE FACTOR CHECKED	--	
PROJECTION	<i>E. P. Hernandez Jr.</i> E. P. Hernandez, Jr.	7/3/35
PROJECTION CHECKED	<i>E. L. Fitch</i> E. L. Fitch	7/3/35
CONTROL PLOTTED	<i>E. P. Hernandez Jr.</i> E. P. Hernandez, Jr.	7/3/35
CONTROL CHECKED	<i>E. L. Fitch</i> E. L. Fitch	7/3/35
TOPOGRAPHY TRANSFERRED		
TOPOGRAPHY CHECKED		
SMOOTH RADIAL LINE PLOT	<i>S. S. Gill</i> S. S. Gill	7/5/35
RADIAL LINE PLOT CHECKED	<i>E. P. Hernandez Jr.</i> E. P. Hernandez, Jr.	7/5/35
DETAIL INKED	<i>E. P. Hernandez Jr.</i> E. P. Hernandez, Jr.	7/13/35
PRELIMINARY REVIEW OF SHEET	<i>E. L. Fitch</i> E. L. Fitch	

TOTAL AREA OF SHEET 16.0 sq. Statute Miles
 AREA OF DETAIL INKED 2.5 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) 18.0 Statute Miles
 LENGTH OF SHORELINE (rivers and sloughs less than 200 m. wide) 14.0 Statute Miles

GENERAL LOCATION Mississippi Sound

LOCATION Dauphin Island (Dauphin I. Bay to Long. 88°14')
(Central Part)

DATUM North American 1927

Latitude 30°14'58.922" (1814.3 m.)

STATION HERON 1935 (Unadjusted) / Longitude 88°08'07.712" (206.2 m.)



COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. T-5537

I. GENERAL INFORMATION:

Instructions dated June 7, 1934.

The information used in the compilation of this sheet was obtained from aerial photographs of the area and from sketches and descriptive notes made on the field photographs by the field inspection party.

The sheet covers that portion of Dauphin Island lying between Dauphin Island Bay and Longitude $88^{\circ}14'$, the northwestern portion of Little Dauphin Island, and the small islands northwest of the latter.

The portion of Dauphin Island contained within the limits of this sheet, with the exception of that part in the extreme eastern end, is a long, narrow strip of land composed mostly of marsh and grass on the north side and a wide sand beach on the south or Gulf side. Numerous ponds exist in the northern part of the island and a narrow sand beach runs along almost the entire length of the north shore.

On the eastern portion of the sheet Dauphin Island widens out in a north and south direction. This part of the island includes an area composed of comparatively high ground covered with a dense growth of pines, oaks, brush, palmetto and grass. In the northern part of the island is a low marsh and grass area.

There are a number of dwellings in the wooded area and a fairly good road running eastward to Fort Gaines at the eastern end of the island.

The portion of Little Dauphin Island shown on this sheet consists mainly of marsh land. Pines, oaks, brush and palmetto are found in the western part of the island.

There are a number of flat sand and marsh islands in Mississippi Sound to the northwest of Little Dauphin Island.

This sheet was compiled from single-lens photographs C-18 to C-23 and C-27 to C-28 taken by the Aero Service Corporation at 9:00 a.m. June 23, 1934. This flight runs in a general east and west direction following the length of Dauphin Island. Photographs taken by the U. S. Naval Air Station were used in tracing that part of Little Dauphin Island shown on this sheet and the small sand islands to the northwest.

Because of the low range in normal tide, 1.1 feet, in this vicinity, only the high water line was shown on the compilation. It was drawn as indicated by the field inspection party on the field photographs. Occasional field measurements to the high water line from identifiable topographic features on the photographs assisted materially in the determination of this line, especially on the wide sand beach on the Gulf side of the island.

II. CONTROL:

(A) Sources

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

1. Triangulation by Lieut. George L. Anderson, 1935.

(B) Errors

There were no errors found in control in the compilation of this sheet. The control is considered adequate for the compilation of this sheet.

III. COMPILATION:

(A) Method

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

(B) Adjustments of plot

The scale of the photographs covering this area was uniform and close to standard scale. Very little tilt or distortion was encountered and practically no adjustment was found necessary.

Because of the fact that the radial line plot, in the vicinity of Big Pass Margaret and Bayou Matagua, established only flat intersections, the

This compilation is considered correct within
0.3 to 0.5 m.m. for intersected points and 0.3 to 0.8 m.m.
for other detail, except north of lat. 30°-16'. For this
area the values should be changed to 0.3 to 1.0 m.m.
for intersected points and 0.3 to 1.3 m.m. for other detail.
(See page 3 R.E.)

J. G. E.
7. J. G. E.

tracing of this area should be considered only approximately correct.

(C) Interpretation

Only the graphic symbols approved by the Board of Surveys and Maps, 1932, were used in the compilation of this sheet, except for the symbol (?) used to denote brush.

(D) Information from other sources

No information was obtained from sources other than those mentioned under "General Information".

(E) Geographic names

All geographic names shown on this sheet were obtained from U. S. C. & G. Survey Chart No. 1266.

(F) Conflicting names

There are no conflicting names in the area covered by this sheet. *See name list for changes.*

IV. COMPARISON WITH OTHER SURVEYS:

The junction of this sheet with sheet T-5536 to the East is satisfactory.

In comparing this sheet with U. S. C. & G. Survey Chart No. 1266, it can be seen that the portion of the island west of Heron Bayou to Longitude 88°14' existed only as a shoal area at the time Chart 1266 was compiled. This portion is at present as described under "General Information". Besides this, a number of the points of land have changed in shape.

V. LANDMARKS:

All landmarks of aid to navigation have been submitted on form 567.

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.

See separate page.

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

Submitted by: E. P. Hernandez, Jr.
Surveyor..

E. P. Hernandez, Jr.

Remarks

Decisions

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7	T240 ; SUBSEQUENT SHEETS USE "ALOE" BUT BELIEVED TO BE BY MISTAKE.	
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9	T240 ; BELIEVED INCORRECTLY CONTRACTED LATER.	
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GEOGRAPHIC NAMES

Survey No. T-5537

Name on Survey	Source										
	A	B	C	D	E	F	G	H	K		
	On Chart No.	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			
<u>Big Pass Margaret</u>	1266										1
<u>North Point</u>	1266										2
<u>Little Dauphin Island</u>	1266	✓									3
<u>Mississippi Sound</u>	1266	✓									4
<u>Dauphin Island Bay</u>	1266	✓									5
<u>Chugae Point</u>	1266	PT. CHUGAE ON T240									6
<u>Bayou Ales ALEC</u>	1266	T240									7
<u>Point Isabel</u>	1266	ISABEL PT. ON T240									8
Graveline <u>Graveline Bay</u>		T240									9
<u>Heron Bayou</u>	1266	T240									10
<u>Dauphin Island</u>	1266	ALL									11
<u>Gulf of Mexico</u>	1266	ALL									12
											13
											14
											15
Pass ^{XUF} Herons											16
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Names underlined in red approved
by *C. E. Sargent* on 2-5-36

Pass ~~Herons~~ ^{XUF} from Name Standard 1266 . 8/6/36 *Boff*

REVIEW OF AIR PHOTO COMPILATION T 5537
Scale 1:10,000

Comparison with Graphic Control Surveys

There are no graphic control surveys in this area.

Comparison with Previous Topographic Surveys

Misc. 2 (1845), 1:200,000 - Reconnaissance survey
T 326 (1845-46), 1:10,000 - Baseline location, no projection
T 406 (1853), 1:10,000 - No projection

T 5537 is adequate to supersede the above surveys in so far as topographic detail is concerned, over the common area.

T 240 (1847), 1:20,000
T 2865 (1908), 1:20,000

Numerous changes have occurred since the dates of these surveys. T 240 shows Dauphin Island as a continuous island. T 2865 covers only the extreme eastern part of T 5537.

T 5537 is adequate to supersede T 240 and T 2865 over the common area.

T 3711 (1917), 1:40,000

The most important change since 1917 has been the rebuilding of Dauphin Island between longitude $88^{\circ} 08'$ and $88^{\circ} 14'$. T 3711 shows only sanding, a few scattered marsh islands, and breakers between these limits, while T 5537 shows Dauphin Island continuous.

T 5537 is adequate to supersede T 3711 over the common area.

Comparison with Contemporary Hydrographic Surveys

There are no contemporary hydrographic surveys in this area.

Comparison with Chart 1266

The small island in Dauphin Bay just north of Chugae Point is no longer in existence. As mentioned under the comparison with T 3711, Dauphin Island has been rebuilt between longitude $88^{\circ} 08'$ and $88^{\circ} 14'$.

Three of the Pass Aux Herons Channel Lights are within the limits of this compilation. They are shown by triangulation symbols. The day beacons and buoys have been omitted from this survey *as they do not show on the ~~old~~ photographs.*

There are no landmarks on the chart within the limits of this survey and none have been recommended except the three Pass Aux Herons Beacons.

Frank G. Erskine

February 6, 1936

Frank G. Erskine

REVIEW OF AIR PHOTO COMPILATION NO. T-5537

Chief of Party: M. H. Reese

Compiled by: E.P.Hernandez,
Jr.

Project: Alabama - 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)

None 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.

No such surveys available at present time.

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 ~~marshy~~^{sandy} 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 ^{high} ~~low~~ water lines, ~~reefs, coral reefs and rocks~~, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)
Due to small range of tide 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)
/ None other than triangulation stations.
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.
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)
None
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. *Two names changed, see Name List.*
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 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:


See pages immediately preceding for detailed report of office verification.


Reviewed in office by:


Frank G. Estlin

Examined and approved:


Chief, Section of Field Records


Chief, Division of Charts


Chief, Section of Field Work


Chief, Division of Hydrography and Topography.