

Mr. McGarity
Du 644

5532

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

APR 1 1936

Acc. No. _____

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic } Sheet No. T-5532
~~Hydrographic~~ }

State Alabama

LOCALITY

Mobile Bay

~~Vicinity of Dog River~~ and Vicinity

1935

CHIEF OF PARTY

M. H. Reese

U. S. GOVERNMENT PRINTING OFFICE: 1934

Applied to drawing of Chart 1266 - Apr. 6, 1939 - J.F.W.

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-5532

State.....Alabama.....**T5532**

General locality.....Mobile Bay.....

Locality.....Vicinity of Dog River and Vicinity
photos

Scale 1:20,618 Date of survey July 16, 1934.

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

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

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

Inked by.....G. E. Townsend and S. S. Gill.....

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 1:20,618 scale. Enlarged and printed
by photolithography on scale of 1:20,000. Scale factor 0.97.

- STATISTICS -

on

SHEET, FIELD NO. _____, REG. NO. T-5532

PHOTOS, NO. 478 TO NO. 496

DATE OF PHOTOGRAPHS 7/16/34 TIME 9:45 a.m.

	BY	DATE FROM TO
ROUGH RADIAL PLOT	<u>G. E. Townsend</u> G. E. Townsend	<u>6/6/35</u>
SCALE FACTOR (0.97)	<u>G. E. Townsend</u> G. E. Townsend	<u>6/6/35</u>
SCALE FACTOR CHECKED	<u>M. H. Reese</u> M. H. Reese	<u>6/6/35</u>
PROJECTION	<u>E. P. Hernandez, Jr.</u> E. P. Hernandez, Jr.	<u>6/7/35</u>
PROJECTION CHECKED	<u>G. O. Coignet</u> G. O. Coignet	<u>6/7/35</u>
CONTROL PLOTTED	<u>G. E. Townsend</u> G. E. Townsend	<u>6/10/35</u>
CONTROL CHECKED	<u>R. E. Wagner</u> R. E. Wagner	<u>6/12/35</u>
TOPOGRAPHY TRANSFERRED	_____	_____
TOPOGRAPHY CHECKED	_____	_____
SMOOTH RADIAL LINE PLOT	<u>G. E. Townsend</u> G. E. Townsend	<u>6/18/35</u>
RADIAL LINE PLOT CHECKED	<u>M. H. Reese</u> M. H. Reese	<u>6/18/35</u>
DETAIL INKED	<u>S. S. Gill</u> - <u>G. E. Townsend</u> S. S. Gill - G. E. Townsend	<u>7/27/35</u>
PRELIMINARY REVIEW OF SHEET	<u>E. L. Fitch</u> E. L. Fitch	<u>8/2/35</u>

TOTAL AREA OF SHEET 68.0 sq. Statute Miles
 AREA OF DETAIL INKED 66.0 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)
35.5 Statute Miles
 LENGTH OF SHORELINE (rivers and sloughs less than 200 m. wide)
84.0 Statute Miles

GENERAL LOCATION Mobile Bay

LOCATION Vicinity of Dog River and Vicinity

DATUM North American 1927

STATION HAGEN 1935
 (Unadjusted)

Latitude 30°35'58.356" (1797.0 m.) ✓

Longitude 88°03'37.734" (1005.2 m.) ✓

Note clearance for transmission line not given.

Field inspection notes on the photographs state that poles on either side of river are 100 ft. high but the positions of the poles were not marked on the photos and therefore they cannot be located by the photo plot.

B.G. Jones
3/3/36

Bridge clearance is from
W.S.E. list 1935.

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. T-5532

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 localities where the draftsman could not completely determine the exact nature of detail from the photographs.

The land area of this sheet consists mostly of high land, except along Dog River where there is some marsh. This area is thickly populated, being just south of Mobile. There are numerous cultivated fields, mainly along the highways, and many docks and boat houses along the shores of Dog River, which is the only navigable stream on this sheet. There are numerous docks and piers along the shores of Mobile Bay.

There were two rows of piling that could not be identified on photographs. These are located by notes and sketches on field photographs and are at approximate Lat. $30^{\circ}37.4'$ and Long. $88^{\circ}03.5'$.

There is a transmission line over Dog River, at the bridge, which is shown with a broken line. *See opposite page.*

At Arlington Pier the high water line is shown as solid line, and piling and debris extend beyond this almost a mile. There is a bluff, starting at this point along the shore of the bay, that is about 25 feet high and that gradually slopes down to ground level at Lat. $30^{\circ}35'$.

There is a road under construction running east and west, just north of Station McGOWIN, that is shown with a double broken line.

There are two radio towers at Lat. $30^{\circ}38'$ and Long. $88^{\circ}05'$ and an airway beacon at Bates Field. These objects were not cut in by triangulation, but located by radial plot. These and all T.T. stations are shown with a 2.5 mm. circle.

The range of tide in this area is approximately a foot and a half. Due to the small scale of photographs and slight variation of tide in this locality, only the high water line was shown.

The area covered by this sheet was traced from photographs taken by the Aero Service Corporation -- five-lens camera #HUI-33 -- July 16, 1934, at 9:45 a.m. There was only one flight (Photos Nos. 478 to 496) over this area, flown approximately parallel to the shoreline of Mobile Bay in a north and south direction.

II. CONTROL:

(A) Sources

1. Triangulation by Lieut. G. L. Anderson, 1935.
2. Transit Traverse by U.S. C. & G. Survey - Local State Control (Alabama).

Field data were obtained from the U.S. C. & G. Survey Local State Control of Alabama for the traverses on this sheet.

These traverses were unadjusted for azimuth and distance and also the geographic positions were computed from unadjusted values obtained from Lieut. Anderson's triangulation party. The datum is North American 1927 (unadjusted). The geographic positions are listed below:

- | | | | |
|------|--------------|-------------|--|
| ✓ 1. | T.T. 312-2 | | |
| | Lat. 30°38' | 1475.8 m. ✓ | |
| | Long. 88°03' | 1305.3 m. ✓ | |
| ✓ 2. | T.T. 310-6 | | |
| | Lat. 30°35' | 1233.8 m. ✓ | |
| | Long. 88°04' | 1183.2 m. ✓ | |
| ✓ 3. | T.T. 310-5 | | |
| | Lat. 30°35' | 128.3 m. ✓ | |
| | Long. 88°04' | 1458.7 m. ✓ | |
| ✓ 4. | T.T. 310-4 | | |
| | Lat. 30°32' | 869.0 m. ✓ | |
| | Long. 88°06' | 282.9 m. ✓ | |
| ✓ 5. | T.T. 310-3 | | |
| | Lat. 30°31' | 1832.3 m. ✓ | |
| | Long. 88°06' | 780.0 m. ✓ | |
| ✓ 6. | T.T. 310-2 | | |
| | Lat. 30°30' | 1112.6 m. ✓ | |
| | Long. 88°06' | 963.9 m. ✓ | |

Traverse stations are described on form 524 filed in Km. 1209.

T.T. 300-1

Lat. 30-39 - 295.3 m

Long. 88-08 - 664.1 m

These stations of the Alabama geodetic survey will probably be filed as second order third order traverses in the Division of Land at some time in the future. However since no positions are yet available in the first position may differ appreciably from those computed by Leese and shown on T 55-32 the stations are shown on the sheet with circles.

- ✓ 7. T.T. 310-1
Lat. $30^{\circ}30'$ 148.9 m.✓
Long. $88^{\circ}06'$ 1048.5 m.✓
- ✓ 8. T.T. 308-5
Lat. $30^{\circ}28'$ 605.0 m.✓
Long. $88^{\circ}06'$ 1323.5 m.✓
- ✓ 9. T.T. 302-2
Lat. $30^{\circ}30'$ 178.6 m.✓
Long. $88^{\circ}10'$ 309.3 m.✓
- ✓ 10. T.T. 302-3
Lat. $30^{\circ}29'$ 1607.4 m.
Long. $88^{\circ}10'$ 283.8 m. *(no card rec'd)*

It was impossible to tie in Station McGOWIN 1935 on photographs. A road intersection was picked on photographs and a traverse run to this point and its position computed. This intersection was used for control of photographs in this area. The position was not shown on celluloid. Station McGOWIN 1935 is shown on the sheet.

It was impossible to tie in triangulation station FOWL 1935 on photographs but the station was plotted on the compilation.

The geographic positions established by Lieut. Anderson were computed on the North American 1927 Datum from adjusted values.

(B) Character

The control in this area is adequate.

(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 was used in the compilation of this sheet.

(B) Adjustments of plot

The majority of the photos used were free from excessive tilt and scale fluctuations.

(C) Interpretation

The graphic symbols used are those authorized by the Board of Surveys & Maps (1932), except the symbol (?) used to denote brush.

(D) Information from other sources

No information was obtained from sources other than those mentioned above.

(E) Conflicting names

None.

(F) New names

There were no new names. All names used were obtained from U.S.C. & G. Survey Chart #1266.

IV. COMPARISON WITH OTHER SURVEYS:

The junctions of this sheet with sheet T-5531 to the north and sheet T-5533 to the south are correct.

V. LANDMARKS:

Landmarks of value to navigation are 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 further surveys are required.

Submitted by: *S. S. Gill*
S. S. Gill,
Draftsman.

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

This compilation is considered correct within 0.3 to 0.5 m.m. for interested points and 0.3 to 0.8 for other detail.
A. G. E.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Pensacola, Florida.

July 27 1935

DIRECTOR, U.S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

L. H. Reese

Chief of Party.

[illegible]

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaves and like objects are not sufficiently permanent to chart.

Remarks

Decisions

1	On photo-compilation only.	
2	"	
3		
4	On photo comp. only.	
5	On photo compilation only.	
6		
7		
8		
9	On photo-compilation only.	
10		
11		
12		
13		
14		
15	on photo-compilation only.	
16	Also known as "Recreation Pier"	
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES
Survey No. *T-5532*

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K
<u>U.S. Highway No. 90</u>				✓					1
<u>State Highway No. 12</u>				✓					2
<u>Bates Field Airport</u>	1266			✓					3
<u>Mobile and Ohio R.R.</u>				✓					4
<u>Louisville and Nashville R.R.</u>		T 3716							5
<u>Cedar Point Road</u>		T 3713							6
<u>Dog River Point</u>	1266		✓						7
<u>Dog River</u>	1266	T 3713	✓						8
<u>Grass Island</u>									9
<u>Mobile Bay</u>	1266	T 3713	✓						10
<u>Deer River Point</u>	1266	T 3713	✓						11
<u>Deer River</u>	1266	T 3713	✓						12
<u>Belle Fontaine</u>	1266	T 3713							13
<u>Fowl River Point</u>	1266	T 3713	✓						14
<u>NAVCO (R.R. STN.)</u>									15
<u>Arlington Pier</u>									16
<div> <p>Names unduplicated and approved by <i>C. H. G. Smith</i> on 2-5-36</p> </div>									17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27

REVIEW OF AIR PHOTO COMPILATION T 5532
Scale 1:20,000

There are no graphic control surveys in this area.

Comparison with Previous Topographic Surveys

Misc. 2 (1845), 1:200,000, Reconnaissance
T 275 (1849), 1:20,000
T 287 (1850), 1:20,000
T 3713 (1917), 1:40,000

The agreement with the 1849-50 surveys is fairly good, the greatest changes being in the vicinity of Dog River. The agreement with the 1917 survey is good; however there has been a slight recession of the shoreline for the entire length of this survey. The route of the Cedar Point Road in the vicinity of Dog River has been changed.

T 5532 is adequate to supersede the above surveys for the common area.

There are no contemporary hydrographic surveys in this area.

Comparison with chart 1266

T 5532 shows all piers that now exist. The large pier at ^{30°38³/₄, 88°03'} ~~Monroe~~ ~~Park~~ (Arlington Pier) which is shown under construction on the chart is now in ruins.

The logs on the chart at the entrance to Dog River are from H 4024 (1917). There is no evidence of these logs in the photographs. ~~and it is recommended that they be deleted from the chart.~~ *They cannot be definitely disproved by the photographs but are quite probably gone after a period of 18 years.*

Landmark STACK in the vicinity of Dog River no longer exists and should be deleted from the chart.

Landmark HO. CUP. is not shown on this survey. This house is not particularly prominent in the photographs and as it is not listed in landmarks submitted by the field party it is recommended that HO.CUP. ^{30°30.2} ^{88°06.2} be deleted from the chart.

^{lights}
All ~~light~~ beacons within the limits of this survey are shown. The buoys and day markers are not shown, *and are not identifiable on the photos.*

March 2, 1936.

Frank G. Erskine
Frank G. Erskine.

REVIEW OF AIR PHOTO COMPILATION NO. T-5532

Chief of Party: M. H. Reese

Compiled by: G. E. Townsend
& S. S. Gill

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)
Discussed in report.
- ✓ 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 other surveys.
- ✓ 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 ^{sandy} ~~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 ^{high} ~~low~~ water lines, ~~reefs, coral reefs and rocks~~, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)

Yes.
- ✓ 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)

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)

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 ~~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:

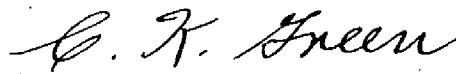

✓18. Examined and approved;

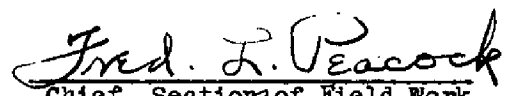


M. H. Reese
Chief of Party

19. Remarks after review in office:

Reviewed in office by: *Frank L. Eiskine*

Examined and approved:


Chief, Section of Field Records

Chief, Division of Charts


Chief, Section of Field Work

Chief, Division of Hydrography
and Topography.

25

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

No. H
No. T 5532

received
registered
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25	✓	<i>7/11</i>	<i>corr covering page 2 of report</i>
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82 Jones 1209

Please return promptly.