

5314

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: Louisiana

DESCRIPTIVE REPORT

Photo
Topographic
Hydrographic

Sheet No. T-5314 5314

LOCALITY

Lake Borgne

Proctor Point to East

Branch Bayou St. Malo

Re: name sheet

1934

CHIEF OF PARTY

M. H. Reese, Jr. H. & G. Engr.

5314

Applied to CNR 1271. Nov. 1937. J.S. Gault

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5314

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. 27

REGISTER NO. T-5314 5314

State Louisiana

General locality Lake Borgne

Locality Proctor Point to East Branch Bayou St. Malo

Scale ~~1:24,000~~ 1:20,000 Photographs: 12/1/32
Date of survey 12/2/32, 19

~~Wessex~~ Air Photo Compilation Party, No. 24, New Orleans, La.

Chief of party M. H. Reese

Surveyed by See data sheet in descriptive report.

Inked by J. O. Prados

Heights in feet above ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated November 7, 1933.

Remarks: Compiled on a scale of 1:24,000 and enlarged and

printed on scale of 1:20,000 by Photo-Lithography.

- NOTES ON COMPILATION -

SHEET NO. T-5314

FIELD NO. 27

PHOTOS, NOS:	DATE OF PHOTOGRAPHS	TIME
564-571	12/1/32	11:38 to 11:42 A. M.
644-654	12/2/32	10:50 to 10:54 A. M.

	BY	DATE
PROJECTION BY	<u><i>E. P. Hernandez</i></u> E. P. Hernandez	<u>5/7/34</u>
PROJECTION CHECKED BY	<u><i>J. C. Dobler</i></u> J. C. Dobler	<u>5/7/34</u>
CONTROL PLOTTED BY	<u><i>E. P. Hernandez & R. E. Wagner</i></u> E. P. Hernandez & R. E. Wagner	<u>5/8/34</u>
CONTROL CHECKED BY	<u>J. A. Peterson</u>	<u>5/9/34</u>
RADIAL LINE PLOT BY	<u>West Fl.-- H. C. Smith <i>H. C. Smith</i></u> <u>East Fl.-- E. P. Hernandez <i>E. P. Hernandez</i></u>	<u>5/14-16/34</u>
RADIAL LINE PLOT CHECKED BY	<u><i>M. H. Reese</i></u> M. H. Reese	<u>5/16/34</u>
DRAFTING OF PHOTOGRAPHS BY	<u>J. O. Prados</u>	<u>5/16 to 6/7/34</u>
PASTING OF NAMES BY	<u>J. O. Prados</u>	<u>6/9/34</u>
REVIEW OF COMPILATION BY	<u><i>H. C. Smith</i></u> H. C. Smith	<u>6/8/34</u>

AREA OF DETAIL INKED-- 47.3 sq. Statute Miles.

LENGTH OF SHORELINE-- (more than 100 meters from nearest opposite shore)
45.3 Statute Miles.

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET, FIELD NO. 27

GENERAL INFORMATION:

Instructions dated November 7, 1933.

The information used in the compilation of this sheet has been obtained from the notes and sketches on the field photographs, and from members of the field inspection party that inspected the questionable area, and from progress sketches showing triangulation work by Lieut. Comdr. R. L. Schoppe and Lieut. W. H. Bainbridge.

The accompanying Notes on Compilation gives all data and statistics in connection with the compilation of this sheet.

Due to the small tide in this area, (approximately one foot) its effect on the shore line was almost negligible. However, those positions of the coast, where the high water line was difficult to determine, were traced from the field photos, on which the field inspection party had sketched in the present high water line.

The area covered by this sheet consists principally of low marshy ground, cut by numerous small lakes, bayous and meandering streams. There are small patches of reeds in some regions and quite extensive area covered by mangle brush. This area is devoid of any development. There being no roads, canals, cultivated land or railroads. Other than several scattered houses, the area is apparently devoid of inhabitants.

This sheet was compiled from photographs taken by the U. S. Army Air Corps' five lens T-3A camera, no. 32-3, photograph numbers: 564-571 on the West Flight, running approximately parallel with Longitude $89^{\circ}41'15''$ and 644-654 on the East Flight, the line of flight curving from approximately Longitude $89^{\circ}33'30''$ to approximately Longitude $89^{\circ}34'30''$.

CONTROL:

(A) Sources:

The following sources of control were used in the compilation of this sheet:

- (a) Triangulation by Lieut. Comdr. R. L. Schoppe and Lieut. W. H. Bainbridge, who were in charge of work in this area at the time of compilation.

Geographic positions established by Lieut. Comdr. Schoppe and Lieut. Bainbridge in 1934 were used. These positions are on the North American 1927 Datum. The difference between the unadjusted and final adjusted positions would be unplotable at the small scale of this compilation- 1:24,000. *unadjusted*

(B) Errors:

The control for this sheet is adequate and the radial line plot gave well established points of intersection.

(C) Discrepancies:

No discrepancies in position of control stations were found, no control stations established by any other organization were used in the compilation of this sheet.

COMPILATION:

(A) Method:

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

(B) Adjustment of Plot:

The photographs in the two flight strips covering the area shown on this sheet appear to be free from excessive tilt, except photograph numbers 641 to 644 in the East strip. These four photographs are tilted more than the usual amount, attributed to the break in the flight at that point. However, conditions were not such that made it impossible to obtain well established points of intersection. Other than the above stated instance, the photographs were not unusual in scale fluctuations and the radial plot required no unusual adjustments. ~~x photos 641 to 644 are on the adjoining compilation~~

(C) Interpretation:

To denote mangle brush from three to four feet high, which occurs frequently in coastal areas, the symbol (}) was used. This formation of brush is usually a type of evergreen growth. Where small areas of reed occur along the coast line, the symbol for bamboo is used, thus (: :). Other than the above, the symbols as approved by the Board of Surveys and Maps (1932) were used.

There are no roads or canals in this area. The larger bayous are shown by double full lines, while the lesser bayous, streams, and tidal sloughs are shown by one solid line, depending in weight upon the importance of the feature. In most cases, unless labelled on the field inspection prints, the classification of these features had to be determined by a close examination of the photographs.

Due to the difficulty of distinguishing detail, because of the dark photographs on the East Flight, photos numbers 646-654, the area on the outer edge of the "A" prints had to be traced from the "C" prints of photograph Nos. 873-882 in the west flight of adjoining sheet No. T-5322. This flight strip falls approximately along Longitude $89^{\circ}26'30''$ on the substituted photographs. The detail was clear and well defined and there was no discrepancies in the radial points and no unusual adjustment was necessary for tracing purposes.

(D) Information From Other Sources:

There was no information derived from sources other than the photographs, sketches and notes on photographs of the field inspection party. The photographs were clear (except a portion of those photographs that have been previously mentioned in this report) and it is believed that the compilation is correct in all particulars.

(E) Conflicting Names:

The names shown on this sheet were taken from U. S. Coast and Geodetic Survey Chart No. 1268 entirely. When compared with U. S. Geological Survey sheet "Shell Beach", and triangulation sketches by Lieut. Comdr. Schoppe and Lieut. Bainbridge-1934, it was found that no conflict in names existed. ~~see revision of book.~~

COMPARISON WITH OTHER SURVEYS:

The junction with the sheets to the North, T-5313; South, T-5315; East, T-5322; and to the West, T-5306; are satisfactory.

In comparing this sheet with U. S. Coast and Geodetic Survey Chart No. 1268 and Geological Survey Chart "Shell Beach", it is found that the general outline of the shorelines and positions of the same are similar, with the exception, of course, of a few slight variations due to tide, and erosion. *see revision of book.*

LANDMARKS:

The list of landmarks as recommended by the field inspection party is submitted on Form 567 for the area covered by this project.

RECOMMENDATIONS FOR FURTHER SURVEYS:

The compilation of this sheet is believed to have a probable error of five meters in well defined detail of importance for charting and of ten meters for other data. There was no need to exaggerate any detail of importance in order to make it distinct during the photo lithographic process. *see revision of book.*

To the best of my knowledge this sheet is complete in all details of importance for charting purposes, within the accuracy stated above and no additional surveys are required.

H. C. Smith
Submitted by: H. C. Smith,
Draftsman

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

REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. T-5314

Title (Par. 56) Forwarded with Sheet.

Chief of Party M. H. Reese

Compiled by J. O. Prados

Project Louisiana Air Photo Compilation Instructions dated Nov. 7, 1933.
Party, No. 24.

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 8; and 16, a, b, c, d, e, g and i.) Note: Par. 8 not applicable to this party.
2. The character and scope of the compilation satisfy the instructions and the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
3. The control and adjustment of the radial plot were adequate. (Par. 12, 29.) *See review at back*
4. There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.) None submitted.
5. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
6. 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.) See Par. C, Page 3 of Des. Report.
7. Important details shown on previous surveys and on the chart have been compared with this sheet and a statement has been entered in the report regarding the removal from the chart or change in position of important detail such as rocks, lights, beacons, prominent objects, bridges, docks, and structures along the water front. No changes in such details have been noted on this sheet. *See review at back*
8. The span, draw and clearance of bridges are shown. (Par. 16c.)
9. The data furnished by the Field Inspection is adequate.

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

- 10. The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
- 11. The descriptive report also contains all additional information required in photo topography as prescribed in the instructions and in the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
- 12. The descriptions of recoverable stations and references to shore line were accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.) *None submitted*
- 13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.)
- 14. The geographic datum of the sheet is North American 1927 ^{unadjusted} and the reference station is correctly noted. (Par. 34.)
- 15. Junctions with contemporary surveys are adequate.
- 16. Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.) ~~Some names are missing.~~
No new names shown. All names agree with charts 1268 and 1270. Bayou la Louche is on chart 1270. All other names shown on chart 1268.
- 17. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)
- 18. No additional surveying is recommended.
- 19. Remarks:

20. Examined and approved:

M. H. Reese
M. H. Reese.
 Chief of Party

21. Remarks after review in office:

Reviewed in office by: *See next page*
B.G. Jones.

Examined and approved:

R.T. Adams
 Chief, Section of Field Records
L.O. Lobbat
 Chief, Division of Charts

J.S. Ordun
 Chief, Section of Field Work
J.F. Rude
 Chief, Division of
 Hydrography and Topography.

Review of Air Photo Compilation T 5314 (1934)

Control: The control was adequate for this compilation except for a small area at the western edge of the compilation between latitude $29^{\circ} 54'$ and $29^{\circ} 56'$. The accuracy of location of 5 to 10 meters given on Page 4 is high for work on this scale. Assuming careful compiling, a better estimate is an accuracy of 10 to 12 meters for located points and 10 to 25 meters for other detail. The small area on the west edge of the compilation as mentioned above may exceed these limits somewhat, but is accepted as sufficiently accurate for charting.

Comparison with Other Surveys: Comparison with the last Topographic Surveys T 628 (1857) and T 629 shows Lake Borgne to be larger, the shoreline having receded roughly 50 to 300 meters all way around. Point aux Marchettes is 400 meters east of its former position and Proctor Point 250 meters west of its former position. The compilation is adequate to supersede the old surveys.

B. G. Jones

Date Nov. 8, 1935 GEOGRAPHIC NAMES

Survey No. T 5314

Chart No. 1271, 1270H268

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 *Names 1 to 17 from advance sheets of surveys by U.S. G.S. in 1935. Also names 20 to 22*

Underlined names approved Nov. 8, 1935.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned from U.S.G.S. surveys of 1935, advance sheets by Field	Location
1	<u>Stump Bayou</u> ✓			Same.	
2	<u>Flat Bayou</u> ✓			"	
3	<u>Grand Bayou</u> ✓			"	29° 55.7' 89° 44.9'
4	<u>Camp Bayou</u> ✓			"	
5	<u>Fort Bayou</u> ✓			"	
6	<u>Lake Shore Bayou</u> ✓			"	
7	<u>Bayou Magill</u> ✓			"	
8	<u>Magill Lagoon</u> ✓			"	
9	<u>Padre Bayou</u> ✓			"	
10	<u>Bayou Hasouse</u> ✓			"	
11	<u>Bayou Muscelini</u> ✓			"	
12	<u>Muscle Bayou</u> ✓			"	
13	<u>Stump Lagoon</u> ✓			"	
14	<u>Bayou St Malo</u> ✓	Not E Branch Bayou St Malo		"	
15	<u>South Branch Bayou Biloxi</u> ✓	Chart 112711		"	
16	<u>SW. Branch Bayou Biloxi</u> ✓	Same		"	
17	<u>Grand Bayou (2)</u> ✓			"	29° 57' 89° 32'
18	<u>Proctor Point</u> ✓				
19	<u>Pt. aux Marchettes</u> ✓				
20	<u>Bayou ^{la} Loutre</u> ✓			"	
21	<u>Lake Borgne</u> ✓			"	
22	<u>Flagpole Bayou</u> ✓			"	