

5662

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, Director

DESCRIPTIVE REPORT

AIR PHOTO
Topographic

~~Hydrographic~~

Sheet No. *KT 5662*

State *Louisiana*

LOCALITY

~~Port of New Orleans Bay~~

Atchafalaya Bay

Four League Bay

1935

CHIEF OF PARTY

Thos. B. Reed

U. S. GOVERNMENT PRINTING OFFICE: 1934

5662

Applied to Apt 1275 May 1937 - J.R. Dambell
Applied to Chart 1050 May 1937 Chas R. Buntz

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

AIR PHOTO
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. XT 5662

REGISTER NO.

State Louisiana

General locality Atchafalaya Bay

Locality Four League Bay

Scale 1:20,000 Date of Photographs Feb. - Mar., 1931
Date of Compilation May 14, 1935

Vessel Field Party No. 4

Chief of party Thos. B. Reed

Surveyed by Field Party No. 4

Inked by R. G. Hickson

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

January 19, 1935; Letter dated February
Instructions dated 11, 1935, No. 26-AA-1990(4), 19

Remarks:

SHEET "N"
REGISTER NO. T-5662

PHOTO NOS.	DATE
RC --67 to RC - 80	February 18, 1931
RC - 50 to RC - 65	February 18, 1931
RD - 23 to RD - 40	February 19, 1931
RE - 23 to RE - 33	February 20, 1931
RM - 31 to RM - 48	March 4, 1931
RZ - 1 to RZ - 4	March 23, 1931

Projection by	<i>Thos. B. Reed</i> Thos. B. Reed	4/5/35
Projection Checked by	<i>W. B. Reed</i> W. B. Reed	4/6/35
Control Plotted by	<i>W. B. Reed</i> W. B. Reed	4/6/35
Control Checked by	<i>R. G. Hickson</i> R. G. Hickson	4/7/35
Control Plotted on Photos by	<i>R. G. Hickson</i> R. G. Hickson	4/10/35
Smooth Radial Plot by	<i>R. G. Hickson</i> R. G. Hickson	4/24/35
Topography Transferred by	<i>R. G. Hickson</i> R. G. Hickson	4/15/35
Detail Inked by	<i>R. G. Hickson</i> R. G. Hickson	5/14/35

Area of Detail Inked (Land Area)	78 Square Statute Miles
Length of Coast Line	8.5 Statute Miles
Length of Shoreline (More than 200 meters in width from nearest opposite shore)	67.5 Statute Miles
Length of Shoreline (Less than 200 meters in width from nearest opposite shore)	100.0 Statute Miles

(Letter of Lt. Thos. B. Reed U. S. C. & G. S., Chief Field Party No.4,
Morgan City, La., dated 5/14/35, re. air photographs.)


1st Ind.

U. S. Engineer Office, Second New Orleans District, New Orleans, La.,
May 23, 1935. - To: Lieut. Thos. B. Reed, U.S. C. & G. S., Chief
Field Party No. 4, Morgan City, La.

1. The dates of flights are as follows:

A2 - RA 35 to 49,	Feb. 17, 1931
A2 - RA 50 to 62,	" 17, 1931
A2 - RL 58 to 66,	Mar. 4, 1931
A2 - RL 67 to 80,	" 4, 1931
A2 - RC 52 to 65,	Feb. 18, 1931
A2 - RC 67 to 82,	" 18, 1931
A2- RD 23 to 41,	" 19, 1931
A2 - RM 33 to 48,	Mar. 4, 1931
A2 - RE 24 to 33,	Feb. 20, 1931
A2 - RZ 1 to 3,	Mar. 23, 1931

2. It is regretted that the time of day on which the above flights
were made is not available from our files. It is possible that you may
obtain this information by direct inquiry to Fairchild Aerial Surveys,
Inc., 270 West 38th St., New York, N. Y.


J. N. Hodges,
Lt. Col., Corps of Engineers,
District Engineer.

DESCRIPTIVE REPORT
to accompany

Air Photo Topographic Sheet "N", East of Four League Bay
(7-5662)
Louisiana Field Party No. 4.

Thos. B. Reed, Chief of Party

Project H. T. 156.

DATE OF INSTRUCTIONS: January 19, 1935; Letter dated February 11, 1935, No. 26-AA-1990(4).

DATE OF SURVEY: February - March - 1931, with revision from field inspection April, 1935.

GENERAL INFORMATION:

Statistics: The land area covered by this sheet is 78 square statute miles. There are 8.5 statute miles of coast line; 67 statute miles of shoreline, as measured along streams, bays, and lakes more than 200 meters in width from the nearest opposite shore; and 100 statute miles of streams less than 200 meters in width.

General Report: Except for a few small high ground areas covered with trees, the area covered by this sheet consists of marsh land, broken by many streams, bays, and lakes, most of them being very shallow. Along a few of the bayous back from the coast there is a light fringe of mangle brush, myrtle bushes, and other low brush. This has been shown where ever the field inspection party recorded it. There is a fringe of shell along the coast line of the Gulf of Mexico that appears on the southern edge of the sheet.

Photographs: This sheet was compiled from parts of six flights of 1:20,000 scale, single lens aerial photographs taken by the Fairchild Corporation for the U.S. Army Engineers in 1931. The flight strips run approximately north and south parallel to each other. The RZ flight along Longitude $91^{\circ} 00'$, taken March 23, 1931. The RE flight along Longitude $91^{\circ} 01'$, taken February 20, 1931. The RM flight along Longitude $91^{\circ} 03'$, taken March 4, 1931. The RD flight along Longitude $91^{\circ} 04'$, taken February 19, 1931. RC - 67 to RC - 80 was along Longitude $91^{\circ} 06'$, taken February 18, 1931. RC - 65 to RC - 50 was along Longitude $91^{\circ} 08'$, taken February 18, 1931.

The photos were in good scale and free of excessive tilt. They appeared to be distorted along the edges but the overlap was sufficient to make it unnecessary to use this part.

CONTROL:

Sources: Triangulation by W. Mussetter, 1928; E. R. McCarthy, 1935 - 34; T. B. Reed, 1935; Plane Table sheets "K" and "L", T. B. Reed, 1935. The control has been adjusted to North American 1927 Datum. *K is T-6324 ; L is T-6322.*

Errors: No errors were found in the control by the photo plot.

Discrepancies: No control established by other organizations was used.

COMPILATION:

Method: The usual radial line method of plotting was used as described in the U.S.C. & G.S. "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".

Adjustments of Plot: No unusual adjustments of the plot were necessary.

Interpretation: No difficulty was experienced in interpreting the detail on the photographs. Only those symbols approved by the U.S. Board of Surveys and Maps were used in compiling the sheet.

unmarked non-recoverable
The topo stations that were used as control ~~but are not marked or described~~ are shown on the sheet with blue circles and the names put on the overlay sheet. *These stations do not appear on the printed copies of this compilation.* *Ram.*

Information from other sources: The shore line of Oyster Bayou and the two shrimp platforms were traced from Plane Table Sheet "K", T. B. Reed, 1935, reduced from 1:10,000 scale to 1:20,000 scale and transferred to this sheet. The coast line of the Gulf of Mexico that appears on this sheet and the limit of the shell fringe along this shore was transferred from Plane Table Sheet "L", T. B. Reed, 1935. The three shrimp platforms on Bayou Goreau were also taken from Plane Table Sheet "L" as they were built after the photos were taken. Also portions of shoreline around triangulation stations CAMP, JUNOP, and WASHA, and topo stations NAR and AKE were transferred from Plane Table Sheet "L". The canal that joins a small pond and Lost Lake near topo station AKE was dug after the photos were taken. The canal that joins Taylors Bayou and Jack Stout Bay was completed after the photos were taken and was compiled from measurements taken by the field inspection party. *"K" is T-6324; "L" is T-6322*

Conflicting Names: No conflicting names were recorded by the field inspection party. *See next page for discussion of conflicting names.*

COMPARISON WITH OTHER SURVEYS:

Junctions: a satisfactory junction was made with Sheet "M" on the west. Due to the fact that there was an error of about 27 meters in the position of triangulation station KING used in making the smooth radial plot for Sheets No. T-5289 and No. T-5290, a satisfactory junction was not obtained with these sheets in this area where they join Sheet "N" on the east. (*T-5562*)

In Latitude 29° 14' 400 meters, Longitude 91° the shore line has been carried eastward of 91° about 200 meters. The existence of this small bight that does not appear on Sheet No. T-5290 has been verified by the hydrographic party, and should be changed on Sheet No. T-5290. (This should be verified in the office by inspection of air photo No. 1641-A from which Sheet No. 5290 was compiled.)

accomplished, although this bight cannot be verified on photos No 1641 or 1643. *Ram.*
7/24/35.

x. No landmarks have been recommended in this area by
the field parties doing the work of T-6324 and T-6322.

Sam

LANDMARKS: (See opposite page.)

A list of landmarks and marked topographic stations will be submitted with Plane Table Sheets "K" and "L", Thos. B. Reed, 1935. (T-6324) (T-6322)

RECOMMENDATIONS FOR FURTHER SURVEYS:

This compilation is believed to have a probable error of not more than .3 mm. in position of well defined detail of importance for charting and of .6 mm. for other data.

Remarks: Just below Latitude 29° 18' on Longitude 91° there is a small section of the shore line of a bay which was not covered by photos of the U.S. Engineers. It is believed that this bay ends before crossing eastward of Longitude 91° as it does not appear on *this comp.* Sheet T-5289. This small section has been left blank on Sheet "N" and it is requested that it be completed in the office by tracing from air photo No. 1647-A from which Sheet T-5289 was compiled. *Accomplished*

As the photos used in compiling this sheet are over four years old it is probable that there have been changes in the topography, particularly in the shallow ponds and bays back from the main waterways. *Done 7/24/35*

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

Submitted by

Assisted by

Thos B Reed

Thos. B. Reed,
Lieut., C. & G. Survey,
Chief of Field Party No. 4.

R. G. Hickson

R. G. Hickson,
Draftsman, C. & G. Survey.

GEOGRAPHIC NAMES:

Geographic names shown on the overlay tracing for this sheet, which are the same as those shown on the U. S. Engineers "Lake Decade" and "Oyster Bayou" Quadrangles, were taken from the above quadrangles and checked by information from local residents. Local information is that the name of the small bayou about 1 mile north of the mouth of Blue Hammock Bayou is not "Little Carrion Bayou" as shown on the "Lake Decade" Quadrangle. I have been unable to find a local name for this bayou. The lake, south of Violin Bayou is known locally by two names, either "Fiddlers Lake" or "Dead Mans Lake". As the name "Fiddlers Lake" seems to be in more common usage it is recommended that this name be charted. The name "Little Blue Hammock Bayou" was obtained from local residents. The name "New Rod Bayou" was also obtained from local residents.

JBR

Date July 19, 1935 GEOGRAPHIC NAMES

Survey No. 5652

Chart No. 1116 199, 198

Diagram No. 1116

Approved by the Division of Geographic Names, Department of Interior. *

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Old Oyster Bayou</u> ✓				
	<u>Bay Junop Bay</u> ✓				✓
	<u>Dominick Bayou</u> ✓				
	<u>Vouvria Bayou</u> ✓				
	<u>Old Oyster Bayou Lake</u> ✓				
	<u>Little Hell Hole Bayou</u> ✓	<u>Little Hellhole Bayou</u>			
	<u>Mud Hole Bay</u> ✓	<u>Mudhole Bay</u>			
	<u>Tony Lake</u> ✓				
	<u>Tony Bayou</u> ✓				
	<u>Mud Hole Bayou</u> ✓	<u>Mudhole Bayou</u>			
	<u>Bayou de Large</u> ✓	<u>Bayou du Large</u>			
	<u>Bay Banan</u> ✓				
	<u>Bayou Banan</u> ✓				
	<u>King Lake</u> ✓				
	<u>Oyster Bayou</u> ✓				
	<u>Hell Hole Bayou</u> ✓	<u>Hellhole Bayou</u>			
	<u>Hell Hole Bay</u> ✓	<u>Hellhole Bay</u>			
	<u>Bay Junop</u> ✓				
	<u>Cross Bayou</u> ✓				
	<u>Indian Pass</u> ✓				
	<u>Taylors Bayou</u> ✓				

Date July 19, 1935

GEOGRAPHIC NAMES

Survey No. 5662Chart No. 1116 198

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

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Big Carrion Crow Bayou</u> ✓				
	<u>Crochet Canal</u> ✓				
	<u>Wine Bayou</u> ✓				
	<u>Bayou Sanbout</u> ✓				
	<u>Lost Lake</u> ✓				
	<u>Bayou de Cade</u> ✓	<u>Lost Lake</u>			
	<u>Turtle Bayou</u> ✓				
	<u>Lake Pagie</u> ✓				
	<u>Fourleague Bay</u> ✓				
	<u>Rice Bayou</u> ✓				
	<u>Lost Lake Pass</u> ✓				
	<u>Moreau Beaux Bayou</u> ✓				
	<u>Blue Hammock Bayou</u> ✓				
	<u>Lake Washa</u> ✓	<u>Lake Washa</u>			✓
	<u>New Rod Bayou</u> ✓	<u>Bayou New Route</u>	✓		
	<u>The Narrows</u> ✓				
	<u>Violin Bayou</u> ✓				
	<u>Buckskin Bayou</u> ✓				
	<u>Little Blue Hammock Bayou</u> ✓		✓		
	<u>Fiddlers Lake</u> ✓				
	<u>Schooner Bayou</u> ✓		✓		

Survey No. 5662

Date. July 19, 1935 GEOGRAPHIC NAMES

Chart No. 198, 1116

Diagram No. 1116

Approved by the Division of Geographic Names, Department of Interior. *

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

[illegible]

REVIEW OF AIR PHOTO COMPILATION NO. T-5562.

Comparison with the Graphic Control Surveys.

T-6322 (1935) 1:20,000 scale. There are no discrepancies between T-6322 and this compilation over the common area.

T-6324 (1935) 1:20,000 and 1:10,000 scale. There are no discrepancies between T-6324 and this compilation over the common area.

All detail on T-6322 and T-6324 is shown on this compilation except the magnetic declinations and non-recoverable plane table positions.

Comparison with Previous Topographic Surveys.

H-1831 (1888) 1:80,000 scale. This is a combined hydrographic and topographic survey. The shoreline is the only topographic information shown on H-1831. The topographic detail on H-1831 is superseded by this compilation over the common area.

H-2996 (1909) 1:20,000 scale. This is a combined hydrographic and topographic survey. The shoreline and control stations are the only topographic details shown on H-2996. There are considerable changes of shoreline throughout the common area. The topography of H-2996 is superseded by this compilation over the common area.

Comparison with New Hydrographic Surveys.

H-5827 (1935) 1:20,000 scale.

H-5838 (1935) 1:20,000 scale.

H-5828 (1935) 1:10,000 scale.

There is no conflict between soundings and the shorelines of this compilation and the respective common area of these hydrographic surveys.

Comparison with the Chart.

Chart No. 198. Changes to be made to this chart as a result of this compilation are discussed under the comparisons with the previous topographic surveys.

Remarks.

The projection of this compilation was tested by checking long diagonals and found satisfactory.

Leonard A. McGann
L. A. McGann,
July 25, 1935.

W. B. Jones

REVIEW OF AIR PHOTO COMPILATION NO. *T-5562* 5662Chief of Party: *T. B. Reed*Compiled by: *R. G. Hickson*Project: *HT-156*Instructions dated: *Jan. 19, 1935*

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)
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)
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)
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*
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.
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)
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)
High water line of the coast of Gulf of Mexico was transferred from T-6322 to this compilation.

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)
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)
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)
No landmarks in this area.
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)~~
No bridges in this compilation
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)
U.S. Engineers' Last Decade Quadrangle was available for a geographic name comparison. L.A.M.
13. The geographic datum of the compilation is *N.A. 1927* and the reference station is correctly noted.
14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)
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;

Chief of Party

19. Remarks after review in office:

Reviewed in office by: *Ronald A. Madsen July 25, 1935.*
V B g Jones

Examined and approved:

E. Z. Green
Chief, Section of Field Records
L. O. Lobnitz
Chief, Division of Charts

T. S. Borden
Chief, Section of Field Work
Glade
Chief, Division of Hydrography
and Topography.