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

DESCRIPTIVE REPORT

AIR PHOTO  
Topographic

Sheet No. #T5389

~~HYDROGRAPHIC~~

State Louisiana

LOCALITY  
ATCHAFALAYA BAY.  
POINT AU FER ISLAND

1935

CHIEF OF PARTY

Thos. B. Reed

5389

Applied to Chart 1075 - May 1937 - J. G. Gamble  
Applied to Chart 1050 May 1937 - Gen. R. Bush Jr.

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. M

REGISTER NO. T-5389

State Louisiana

General locality Atchafalaya Bay

Locality Point Au Fer Island

Date of Photographs Feb. - Mar., 1931  
Scale 1:20,000 Date of Compilation May 31, 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-AA1990(4), 19.....

Remarks:.....

## SHEET "M"

REGISTER NO. T-5389

PHOTO NOS.	DATE
RA - 36 to RA - 62	February 17, 1931
RL - 58 to RL - 77	March 4, 1931
RC - 62 to RC - 65	February 18, 1931
RD - 1 to RD - 5	Unknown

Projection by	<i>W. B. Reed</i> W. B. Reed	4/12/35
Projection checked by	<i>Thos. B. Reed</i> Thos. B. Reed	4/12/35
Control Plotted by	<i>H. L. Proffitt</i> H. L. Proffitt	5/6/35
Control Checked by	<i>R. G. Hickson</i> R. G. Hickson	5/6/35
Control Plotted on Photos by	<i>R. G. Hickson</i> R. G. Hickson	5/17/35
Smooth Radial Plot by	<i>R. G. Hickson</i> R. G. Hickson	5/18/35
Topography Transferred by	<i>R. G. Hickson</i> R. G. Hickson	5/16/35
Detail Inked by	<i>R. G. Hickson</i> R. G. Hickson	5/31/35

Area of Detail Inked (Land Area)	62 Square Statute Miles
Length of Coast Line	16.5 Statute Miles
Length of Shoreline (More than 200 meters in width from nearest opposite shore)	52.0 Statute Miles
Length of Shoreline (Less than 200 meters in width from nearest opposite shore)	15.0 Statute Miles

DESCRIPTIVE REPORT  
to accompany

Air Photo Topographic Sheet "M", Point Au Fer Island

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, and May, 1935.

GENERAL INFORMATION:

Statistics: The land area covered by this sheet is 62 square statute miles. There are 16.5 statute miles of coast line of the Gulf of Mexico, 52 statute miles of shoreline as measured along streams, lakes, and bays more than 200 meters in width from the nearest opposite shore, and 15 statute miles of stream less than 200 meters in width.

General Report: The land area covered by this sheet consists entirely of marsh. There are many small streams and ponds, most of them very shallow. Along the coast line of the Gulf of Mexico and parts of the shoreline of Atchafalaya Bay there is a fringe of shell.

Photographs: This sheet was compiled from parts of three flights of 1:20,000 scale, single lens aerial photographs taken by Fairchild Aerial Surveys, Inc., for the U. S. Army Engineers in 1931. The flight strips run approximately north and south parallel to each other except RD - 1 to 5 which runs along the coast of the Gulf of Mexico.

RC - 62 to RC - 65 along Longitude  $91^{\circ} 08'$ , taken February 18, 1931.

RL - 67 to RL - 77 along Longitude  $91^{\circ} 10'$ , taken March 4, 1931.

RL - 58 to RL - 66 along Longitude  $91^{\circ} 12'$ , taken March 4, 1931.

RA - 50 to RA - 62 along Longitude  $91^{\circ} 15'$ , taken February 17, 1931.

RA - 36 to RA - 49 along Longitude  $91^{\circ} 16'$ , taken February 17, 1931.

The photographs were in good scale and free of excessive tilt. No difficulty was experienced in tracing the detail from them.

CONTROL:

Sources: Triangulation by W. Mussetter, 1928; E. R. McCarthy, 1933; Plane Table sheets "I" and "K", Thos. B. Reed, 1935. The control has been adjusted to North American 1927 Datum.

*I is T-6323. (1935)*

*K is T-6324. (1935)*



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. Survey "Notes on the Compilation of Plainimetric Line Maps from Five Lens Aerial Photographs".

The celuloid sheet was large enough to radial plot the entire island but due to the limit in size of the final sheet it was necessary to transfer the part of the plot that covered the northern point of the island to an insert in the south west corner of the sheet.

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

Interpretation: No difficulty was experienced in interpreting the detail on the photographs. Only the symbols approved by the U.S. Board of Surveys and Maps were used in compiling the sheet. In cases where the shore line of some of the shallow ponds was too broken and indefinite to trace a definite high water line, the marsh lines were broken to indicate, as nearly as possible, the edge of the marsh. It was necessary to exaggerate the size of the houses shown on this sheet, as they are in reality very small oyster and trapping camps, barely large enough to show on the photographs. The <sup>unmarked, non-recoverable.</sup> 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.*

Information from other sources: The coast line of the Gulf of Mexico from triangulation station BEACH to the eastern edge of the sheet was taken from Plane Table Sheet "K", reduced from 1:10,000 to 1:20,000 and transferred to the air photo sheet. The coast line from triangulation stations END to BEACH was taken from the reverse side of sheet "K" on 1:20,000 scale. The rest of the coast line, the shoreline of Atchafalaya Bay from Point Au Fer to triangulation station RAY, the limit of the shell fringe along these shores, the low water line, that part of Locust Bayou from its mouth to topo station ANN, and small portions of shoreline near triangulation stations END, AMOS, and LAST were taken from Plane Table Sheet "I". The air photos do not cover any of the sheet west of topo station ANN, as shown by a dashed line on the overlay sheet, and this was compiled from Plane Table Sheet "I" and from information obtained from the field inspection party. *Sheet "I" is T-6323, "K" is T-6324.*

Conflicting Names: On Chart 199 the name "Mullett Creek" appears on what now is called "Locust Bauou" on the U.S. Engineers "Point Au Fer" Quadrangle. It is recommended that the latter name be charted. The name "Point Au Fer Island" was obtained from local residents. All other names were obtained from the U.S. Engineers "Point Au Fer" Quadrangle. All names shown on the overlay sheet were verified



\* No landmarks have been recommended in this area  
by the field parties doing the work of T-6323 and T-6324.

from  
7/23/25.

by local residents. It is recommended that the names "Two Oaks", "Little Hammock", and Narrow Hammock which appear on Chart 199 be deleted as the field inspection party reports these hammocks have disappeared.

COMPARISON WITH OTHER SURVEYS:

Junctions: A satisfactory junction was obtained with Sheet "N" on the east. (T-5562)

LANDMARKS: (See opposite page.)

A list of landmarks and marked topographic stations will be submitted with Plane Table Sheets "I" and "K", Thos. B. Reed, Chief of Field Party No. 4, 1935. (T-6323) (T-6324)

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 purposes and of .6 mm. for other data.

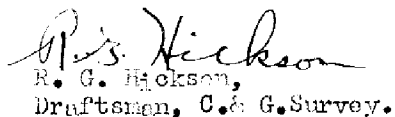
To the best of my knowledge this compilation is complete in all detail of importance for charting purposes within the accuracy stated above, and no further surveys are required.

Submitted by

Assisted by



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



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



Date July 19, 1935 GEOGRAPHIC NAMES

Survey No. T 5389

Chart No. 1116 199

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>Point au Fer Island</u> ✓				
	<u>Four League Bay</u> ✓	<u>Fourleague bay</u> <sup>1116</sup>			
	<u>Atchafalaya Bay</u> ✓				
	<u>Mosquito Point</u> ✓				
	<u>Mosquito Pass</u> ✓				
	<u>Mosquito Island</u> ✓				
	<u>Mosquito Bay</u> ✓				
	<u>Mosquito Bayou</u> ✓				
	<u>Fishing Point</u> ✓	<u>Fishing Bend</u> (additional)			
	<u>Dead Alligator Point</u> ✓				
	<u>Locust Bayou</u> ✓				
	<u>Mullet Cove</u> ✓				
	<u>Point au Fer</u> ✓				
	<u>Burkes Bayou</u> ✓				
	<u>Bay Castagnier</u> ✓				
	<u>Gulf of Mexico</u> ✓				
	<u>South Point</u> ✓				
	<u>Turn Point</u> ✓				
	<u>Fox Point</u> ✓				
	<u>Raquet Pass</u> ✓	GN 11 (1937)			
	<u>Wildcat Bayou</u> ✓				
	<u>Steinbergs Camp</u> ✓			APPROVED NAMES UNDERLINED IN REG. H. L. Fleming	

REVIEW OF AIR PHOTO COMPILATION NO. T-5389

1:20,000 scale.

Comparison with the Graphic Control Surveys.

T-6323 (1935) 1:20,000 scale. \* There are no discrepancies between T-6323 and this compilation.

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

All detail shown on T-6323 and T-6324 is also shown on this compilation except non-recoverable plane table positions and the magnetic declination, and details on T 6323 which are outside the area of this compilation.

Comparison with Previous Topographic Surveys.

H-658 (1858) 1:20,000 scale. This is a combined hydrographic and topographic survey of Point Au Fer. The shoreline and control points are the only topographic information shown on H-658. Except for the soundings and other hydrographic detail H-658 is superseded by this compilation over the common area.

H-1831 (1888) 1:80,000 scale. This is a combined hydrographic and topographic survey. The shoreline of Point Au Fer and control points are the only topographic information shown on H-1831. There are no large changes of shoreline. Except for the soundings and other hydrographic detail 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 of Four League Bay and control points are the only topographic information shown on H-2996. There are no large changes of shoreline here since 1909. H-2996 is superseded by this compilation over the common area except for hydrographic detail.

Comparison with the Charts.

Charts No. 198 and 199. Changes to be made to these charts as a result of this compilation are discussed under the comparison with previous topographic surveys.

Remarks.

The projection of this compilation was tested roughly and found satisfactory.

*Leonard A. McGann*  
Leonard A. McGann.  
July 23, 1935.

\* T6323 is filed as a topographic survey as it covers part of the area falls outside of any air photographic survey

*By Jones*



REVIEW OF AIR PHOTO COMPILATION NO. *T-5389*Chief 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 along shell beach was transferred to the compilation from graphic control sheets T-6323 and T-6324.*

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." *f.w.*



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 have been recommended by the field party. fann*
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 on 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. Engineer's "Point Au Fer" quadrangle used in geographic name comparison. fann*
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: *Leland A. Melsum, July 23, 1935. B. J. Jones*

Examined and approved:

*C. K. Green*  
\_\_\_\_\_  
Chief, Section of Field Records

*L. O. Whit*  
\_\_\_\_\_  
Chief, Division of Charts

*H. B. Boden*  
\_\_\_\_\_  
Chief, Section of Field Work

*G. W. Wade*  
\_\_\_\_\_  
Chief, Division of Hydrography  
and Topography.