# Descriptive Report

**Type of Survey:** PLANIMETRIC (PHOTOGRAMMETRIC)

Field No.: Ph-170  
Office No.: T-10520

**Locality**

State: LOUISIANA  
General locality: ATCHAFALAYA BASIN FLOODWAY  
Locality: BAYOU SORREL

**Chief of Party**

Ira R. Rubottom  
Fred Natella, Portland Photogrammetric Unit

**Library & Archives**

Date: May 1963
DESCRIPTIVE REPORT - DATA RECORD

T-10520

Project No. (II): Ph-170

Field Office (II): Morgan City, Louisiana

Photogrammetric Office (III): Portland, Oregon

Chief of Party: Ira R. Rubottom

Officer-in-Charge: Fred Natella

Instructions dated (II) (III): (II) 4 December 1956

Supplement I 15 January 1957

Supplement II 14 March 1957

(III) 21 June 1957

Amendment 2 April 1959

Letter 73/rrj 8 January 1959

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: X

Elevations shown as (25) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): B.M. 49 (USE) 1953

Lat.: 30° 13' 35.733" Long.: 91° 25' 13.064"

Adjusted Unknown

Unadjusted

Plane Coordinates (IV): State: Zone:

Y= X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.
Areas contoured by various personnel
(Show name within area)
(II) (III)
DESCRIPTIVE REPORT - DATA RECORD

Field inspection by (II): Leo F. Beugnet

Date: May - 1957

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): April and May 1957 by field inspection. Refined and transferred to office photographs by stereoscopic inspection and graphically detailed on the manuscript.

Date:

Projection and Grids ruled by (IV):

Date:

Projection and Grids checked by (IV):

Date:

Control plotted by (III): C. C. Harris

Date: 3-19-58

Control checked by (III): E. T. Jenkins

Date: 3-20-58

Radial Plot or Stereoscopic Control extension by (III):

J. L. Harris

Date: 8-1-58

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III):

Raleigh Swails, Rough Draft
James Sainsbury
James L. Harris, Scribing
James L. Harris, Stick-up

Date: 3-30-59

Photogrammetric Office Review by (III):

J. L. Harris, Rough Draft
J. E. Deal, Advance

Date: 3-31-60

Sept. 1960

Date:

Elevations on Manuscript checked by (II) (III):

Date:
DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): USC&GS 9 lens, focal length 8.25 inches

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>54789 thru</td>
<td>10-15-56</td>
<td>10:56</td>
<td>1:20,000</td>
<td>Tide is mainly diurnal.</td>
</tr>
<tr>
<td>54796</td>
<td></td>
<td>10:58</td>
<td></td>
<td>Probably about 0.5 ft. above M.L.W. on this day.</td>
</tr>
<tr>
<td>54841</td>
<td></td>
<td>11:51</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: There was no data furnished to the compilation office applicable to the tide gage shown on the manuscript at the intersection of Upper Grand River and Leves.

Tide (III)

<table>
<thead>
<tr>
<th>Reference Station:</th>
<th>Galveston, Texas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subordinate Station:</td>
<td>Eugene Island, Atchafalaya Bay, La.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ratio of</th>
<th>Mean</th>
<th>Diurnal</th>
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</thead>
<tbody>
<tr>
<td>Ranges</td>
<td>Range</td>
<td>Range</td>
</tr>
</tbody>
</table>

| 1.1 | 1.9 |

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 59

Shoreline (More than 200 meters to opposite shore) (III): None

Shoreline (Less than 200 meters to opposite shore) (III): 57

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 16

Recovered: 6

Identified: 6

Number of BMS searched for (II): ---

Recovered: ---

Identified: ---

Number of Recoverable Photo Stations established (II): None

Number of Temporary Photo Hydro Stations established (III): None

Remarks:
FIELD INSPECTION REPORT
MAP T-10520

2. AREAL FIELD INSPECTION

This area is located within St. Martin and Iberville Parishes and, with the exception of the northeast section, it is entirely within the Atchafalaya Basin Floodway. See Field Inspection Report for Map T-10522 (1957) for description of the area within the floodway.

The East Protection Levee enters the map in the north central part and meanders in a southeast direction to leave the map in the eastern part. The only permanent population in the area is located on this levee at its junction with Upper Grand River.

There are two oil fields in the area. The oil field located just north of Bayou Sorrel is relatively new and is under development and expansion. Local pipelines were not indicated as they are generally of a temporary nature subject to change and increase in number as development progresses.

All wells are either oil or gas; all tanks are oil tanks unless otherwise indicated.

Photograph quality was excellent; no interpretation difficulties were encountered with the exception of those discussed in the Field Inspection Report for Map T-10522. Field inspection is believed to be adequate and complete. Field inspection notes appear on the following nine lens, 1:20,000 scale field photographs: 54790, 54796 through 54798 and 54841 through 54843.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey stations were searched for and reported on Form 526.

The following stations were reported as lost:

GRAND DAM, 1935
INDICO BAYOU (USE) 1917.

All control stations searched for, recovered and identified were established by this bureau or the Corps of Engineers.

No supplemental control was established.

Due to the lack of recoverable horizontal control stations within the area, all stations plotted on the project diagram were searched for. Silt- ing action has covered the stations to various depths. The witness trees have been destroyed by this same silting and it is impossible to locate
the exact position of the marks by conventional recovery methods.

The stations which were located along the levees have also been destroyed. The height of the levee was raised sometime prior to 1952. This construction necessitated additional fill from the borrow pit along the easterly side, and it is reported that the stations were destroyed at that time.

One traverse station and the reference marks of three other traverse stations, established by the Corps of Engineers, were recovered and identified. These stations were established in 1952 by a traverse run along the top of the levee and were not indicated on the project diagram.

In addition, stations BLANCHARD, 1935 and BR BR-14 E, U. S. E., were recovered and identified for use in the control of the radial plot.

4. VERTICAL CONTROL
   Not applicable.

5. CONTOURS AND DRAINAGE
   Contours inapplicable.

   Drainage is by perennial streams, bayous and canals. All of these are self evident on the photographs. In several of the bayous and canals, hyacinth and other marine growth have caused the water area to photograph as white in color. It is believed that these areas are adequately covered by field inspection notes on the photographs.

6. WOODLAND COVER
   Woodland cover was classified in accordance with Reference 5443, Topographic Manual, Part II, and Project Instructions. It is believed to be adequately covered by Item 2 of this report and field photographs.

7. SHORELINE AND ALONGSHORE FEATURES
   The majority of the shoreline along the larger bayous is fast. Willow trees and an occasional cypress overhang the mean high water line, which is readily discernible with the aid of a stereoscope.

   Periodic tide in the area is negligible. Fluctuations of the water level result only from flooding. There is no true foreshore.

   There are no cliffs or bluffs.

   Alongshore features are adequately covered by field inspection notes on the photographs.

8. OFFSHORE FEATURES
   There are none.
9. LANDMARKS AND AIDS

There are no landmarks for nautical or aeronautical charts; there are no aids to navigation within this quadrangle.

10. BOUNDARIES, MONUMENTS AND LINES

The boundary between St. Martin and Iberville Parishes affect this map. There are no other boundaries.

See "Special Report, Boundaries, Project PH 25170, Part 1 of 3".

11. OTHER CONTROL

There was no other control established.

12. OTHER INTERIOR FEATURES

Buildings were classified in accordance with Reference 5446, Topographic Manual, Part II, and Project Instructions.

There are no bridges or overhead cables over navigable waters. The shore ends of a submerged pipeline crossing Bayou Sorrel have been identified on the photographs.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project PH 25170, Part 1 of 3".

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA


Special Report, Geographic Names, Project PH 25170, Part 1 of 3, forwarded to Washington 8 May 1957, Package No. 57-052.

Data, Map T-10522 to be forwarded at a later date.

Submitted:

Leo F. Beugnet
Cartographer

Approved:

Ira R. Rubottom
Chief of Party
PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10520

Project Ph-170

Refer to Photogrammetric Plot Report for T-10522 (1957).
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR $\phi$-COORDINATE</th>
<th>LONGITUDE OR $\lambda$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
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<td>P-29</td>
<td>1927</td>
<td>91 19 08.100</td>
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<td></td>
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<td>856.6 (991.0)</td>
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<td>BMAR-14E (USE)</td>
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<td></td>
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<td>205.1 (1398.8)</td>
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<td>573.2 (1032.8)</td>
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1 FT. = 0.3048006 METER

COMPUTED BY: E.T.J.     DATE: 3-13-58
CHECKED BY: J.L.H.     DATE: 3-17-58
COMPILATION REPORT
Map Manuscript T-10520
Project Ph-170

Items 31 thru 33:

Refer to Descriptive Report for T-10527 (1957).

34. Contours and Drainage:

Contours are not applicable. Drainage was delineated from field inspection, office examination of the photographs and by comparison with the Corps of Engineers, 15 minute, Chicot Lake, La. quadrangle, scale 1:62,500, edition of 1955.

35. Shoreline and Alongshore Details:

Refer to Descriptive Report for T-10527 (1957).

No low-water or shoal lines were indicated by field inspection and none were compiled.

36. Offshore Details:

None.

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

None.

39. Junctions:

Satisfactory junctions were made with T-10519 on the west and T-10522 on the south. There are no contemporary surveys to the north and east.

40. Horizontal and Vertical Accuracy:

Refer to Descriptive Report for T-10527 (1957).
46. **Comparison with Existing Maps:**

Comparison was made with Corps of Engineers, 15 minute Chicot Lake, La. quadrangle, edition of 1955, scale 1:62,500.

47. **Comparison with Nautical Charts:**

Comparison was made with nautical chart No. 1050 (New Orleans to Calascieu River, east section) scale, 1:175,000 at Lat. 30°, revised 2-25-57.

**Items to be Applied to Nautical Charts Immediately.**

None.

**Items to be Carried Forward.**

None.

Approved:  

[Signature]

Fred Natella  
CAPT, C&GS  
Portland District Officer

Respectfully submitted:  

[Signature]

J. Edward Deal  
Cartographer  
C&GS
49. Notes to the Hydrographer:

None.
PHOTOGRAMMETRIC OFFICE REVIEW
T-10520


CONTROL STATIONS

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines X 32. Public land lines None

MISCELLANEOUS

40. J.L. Harris Reviewer
41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler
Supervisor

43. Remarks: M-2623-12
48. Geographic Names:

Atchafalaya Basin Floodway
Bayou Maringouin
Bayou Pigeon
Bayou Simpson
Bayou Sorrel
Berry Bayou
Big Island
Bill Bayou
Bloody Bayou
Bulltail Bayou
Caney Bayou
Cannon Bayou
East Fork Bayou Pigeon
Frog Lake
Graveyard Bayou
Indigo Bayou
Jack Island
Jakes Bayou
Jones Bayou
Middle Flat
Moody Bayou
Murphy Bayou
Newcomer Bay
Old Bed of Alligator Bay
Fat Bay
Pigeon Bay
Sorrel Bay
Spike Bay
Sullivan Bayou
Tarleton Bayou
Upper Flat
Upper Grand River
West Fork Bayou Pigeon

Geographic Names Section
14 August 1962
REVIEW REPORT
OF PLANIMETRIC MANUSCRIPTS
T-10518 thru T-10522

December 1962

61. General Statement

These are five (5) planimetric maps of Project PH-170 Atchafalaya River, La. These maps were prepared as bases for Nautical Charts and future Hydrographic Surveys.

62. Comparison with Registered Topographic Surveys

None

63. Comparison with Maps of Other Agencies

<table>
<thead>
<tr>
<th>Location</th>
<th>Scale</th>
<th>Agency</th>
<th>Year</th>
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</thead>
<tbody>
<tr>
<td>Loxemauville, La.</td>
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<td>C. of E.</td>
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<td>Lake Chicot, La.</td>
<td>1:62,500</td>
<td>U.S.G.S.</td>
<td>1959</td>
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<td>Pigeon Bay, La.</td>
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<td>U.S.G.S.</td>
<td>1953</td>
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</tbody>
</table>

The above maps are in good agreement except for minor shoreline and cultural details.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

<table>
<thead>
<tr>
<th>Year</th>
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<tbody>
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<td>1961 Revised to Apr 1962</td>
<td>1:175,000</td>
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<tr>
<td>1962</td>
<td>1:175,000</td>
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</table>

There are no major discrepancies through reprinting of the chart they may incorporate some or all of these changes.

66. Adequacy of Results and Future Surveys

These manuscripts were prepared according to project instructions and are within the required accuracy.

Reviewed by:

L. C. Lands
**INSTRUCTIONS**

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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</thead>
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