

# 10520

Diag. Cht. No. 1116-2.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
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 SOBREL
1956-1957	
CHIEF OF PARTY	
Ira R. Rubottom	Chief of Party
Fred Natella, Portland Photogrammetric Unit	
LIBRARY & ARCHIVES	
DATE	May 1963

COMM-DC 61300

# 10520

DESCRIPTIVE REPORT - DATA RECORD

T-10520

Project No. (II): Ph-170                      Quadrangle Name (IV):

Field Office (II): Morgan City, Louisiana

Chief of Party: Ira B. Rubottom

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Fred Natella

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

Copy filed in Division of  
Photogrammetry (IV)

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 (5) 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:

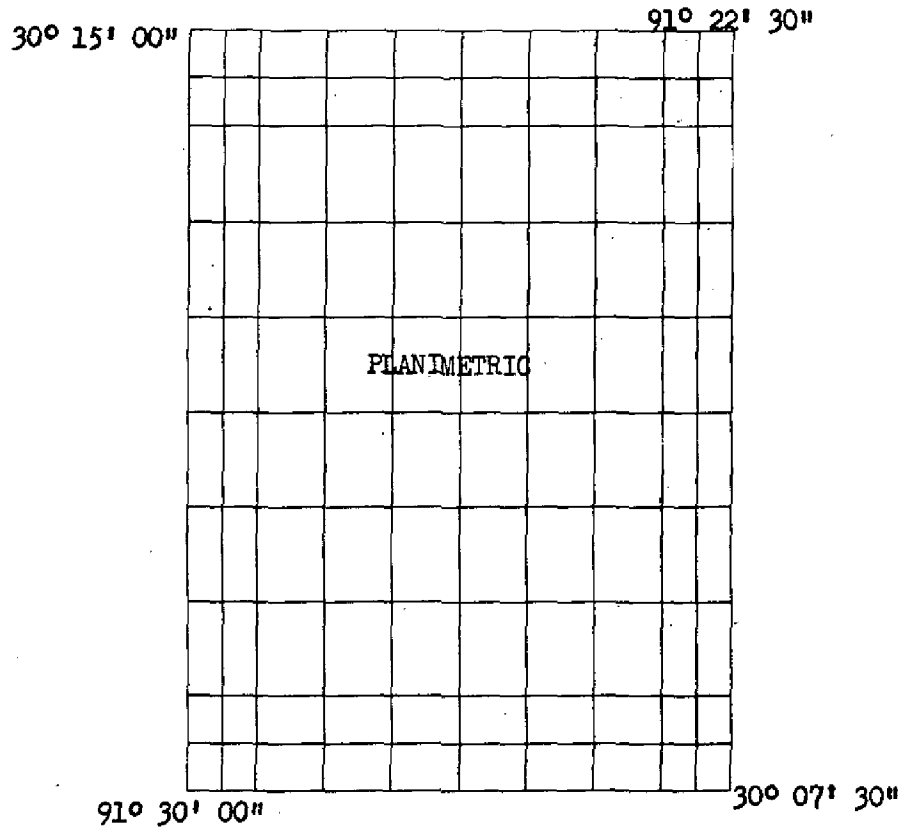
Y=

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.

DESCRIPTIVE REPORT - DATA RECORD



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.

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

Stereoscopic Instrument compilation (III):

Planimetry

Date:

Contours

Date:

Manuscript delineated by (III):

Raleigh Swails)  
James Sainsbury) Rough Draft

Date: 3-30-59

James L. Harris Scribing

6-3-60

James L. Harris Stick-up

8-30-60

Photogrammetric Office Review by (III):

J. L. Harris Rough Draft

Date: 3-31-60

J. E. Deal Advance

Sept. 1960

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)			
Number	Date	Time	Scale	Stage of Tide	
54789 thru 54791	10-15-56	10:56	1:20,000	Tide is mainly diurnal. Probably about 0.5 ft. above M.L.W. on this day.	
54796 " 54798	"	10:58	"		
54841 " 54843	"	11:51	"		

**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 Levee.

Tide (III)

Reference Station: **Galveston, Texas**  
Subordinate Station: **Eugene Island, Atchafalaya Bay, La.**  
Subordinate Station:

Ratio of Ranges	Mean Range	Diurnal
		Spring Range
	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 (III): **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  
INDIGO 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. Silting 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 BM 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 <sup>PH</sup> 5170, 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 <sup>PH</sup> 5170, Part 1 of 3".

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Special Report, Boundaries, Project <sup>PH</sup> 5170, Part 1 of 3, forwarded to Washington 8 May 1957, Package No. 57-052.

Special Report, Geographic Names, Project <sup>PH</sup> 5170, 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*  
Leo F. Beugnet  
Cartographer

Approved:

*Ira R. Rubottom*  
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).

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
DESCRIPTIVE REPORT  
CONTROL RECORD

MAP T-10520 PROJECT NO. Ph-170 SCALE OF MAP 1:20,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\mu$ -COORDINATE LONGITUDE OR $x$ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N. A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS (BACK)
				FORWARD	(BACK)		FORWARD	(BACK)	
BLANCHARD, 1935	G-3218	N. A.	30 15 28.057				863.9	( 983.7)	
DO	P-29	1927	91 19 08.100				216.5	(1387.4)	
Sub Station	Office	"	30 15 27.819				856.6	( 991.0)	
Sub Station	Comp.	"	91 19 07.672				205.1	(1398.8)	
BMAR-14E (USE)	(USE) Quad Chicot Lake, La. PA-6	"	30 09 42.501				1308.7	( 538.8)	
DO	Office	"	91 20 27.176				727.2	( 878.3)	
Sub Station	Comp.	"	30 09 43.313				1333.7	( 513.8)	
Sub Station	Comp.	"	91 20 31.359				839.1	( 766.4)	
BM-49 (USE) 1953	"	"	30 13 25.733				792.4	(1055.1)	
DO	"	"	91 25 13.064				349.4	(1255.2)	
Sub Station	"	"	30 13 24.911				767.1	(1080.4)	
Sub Station	"	"	91 25 13.149				351.6	(1252.9)	
BM-52A (USE) 1953	"	"	30 11 34.993				1077.5	( 770.0)	
DO	"	"	91 23 37.489				1002.8	( 602.2)	
Sub Station	"	"	30 11 34.159				1051.8	( 795.7)	
Sub Station	"	"	91 23 40.182				1074.9	( 530.1)	
BM-47 (USE) 1953	"	"	30 14 44.058				1356.6	( 490.9)	
DO	"	"	91 26 20.342				543.9	(1060.3)	
Sub Station	"	"	30 14 41.046				1263.9	( 583.6)	
Sub Station	"	"	91 26 17.759				474.8	(1129.4)	
P. I. 107 (USE) 1953	LAKE CHARLES FLOODWAY LOWER GUIDE LEVEE P. 14	"	30 07 48.860				1504.5	( 343.0)	F.
DO	Office	"	91 19 29.113				779.3	( 826.7)	
Sub Station	Comp.	"	30 07 50.234				1546.8	( 300.7)	
Sub Station	Comp.	"	91 19 21.415				573.2	(1032.8)	

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:

*Fred Natella*  
By: *JED*  
Fred Natella  
CAPT, C&GS  
Portland District Officer

Respectfully submitted:

*J. Edward Deal*  
J. Edward Deal  
Cartographer  
C&GS

49. Notes to the Hydrographer:

None.

## PHOTOGRAMMETRIC OFFICE REVIEW

T. 10520

1. Projection and grids X 2. Title X 3. Manuscript numbers X 4. Manuscript size X

## CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy X 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) None 7. Photo hydro stations None 8. Bench marks None  
9. Plotting of sextant fixes None 10. Photogrammetric plot report X 11. Detail points X

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline X 13. Low-water line None 14. Rocks, shoals, etc. None 15. Bridges None 16. Aids to navigation None 17. Landmarks None 18. Other alongshore physical features X 19. Other along-shore cultural features X

## PHYSICAL FEATURES

20. Water features X 21. Natural ground cover X 22. Planetable contours None 23. Stereoscopic instrument contours None 24. Contours in general None 25. Spot elevations None 26. Other physical features X

## CULTURAL FEATURES

27. Roads X 28. Buildings X 29. Railroads None 30. Other cultural features X

## BOUNDARIES

31. Boundary lines X 32. Public land lines None

## MISCELLANEOUS

33. Geographic names X 34. Junctions X 35. Legibility of the manuscript X 36. Discrepancy overlay None 37. Descriptive Report X 38. Field inspection photographs X 39. Forms X

40. J. L. Harris J. Edward Deal  
Reviewer Supervisor, Review Section or Unit

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.

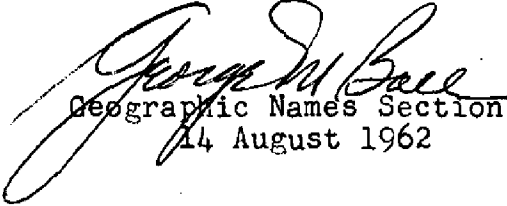
\_\_\_\_\_  
Compiler

\_\_\_\_\_  
Supervisor

43. Remarks:

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  
Pat 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

Loreauville, La.	1:62,500	C. of E.	1961
Lake Chicot, La.	1:62,500	U.S.G.S.	1959
Pigeon Bay, La.	1:24,000	U.S.G.S.	1953

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

1050	1:175,000	1961 Revised to Apr 1962
1051	1:175,000	1962

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. Lande*  
\_\_\_\_\_  
L. C. Lande



Approved by:

Charles H. ...  
Chief, Cartographic Branch

... J. Taylor  
Chief, Nautical Chart Division

J. E. Waugh 4/8/63  
Chief, Photogrammetry Division

Horace B. Conely  
Chief, Operations Division

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-10520

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.

CHART	DATE	CARTOGRAPHER	REMARKS
<del>1050</del>	<del>1-6-64</del>	<del>H. Keeler</del>	Full Part Before After Verification Review Inspection Signed Via <u>LCL</u> Drawing No. <u>Considered not applied REE 2-4-64</u>
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
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