

10524

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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-10524

LOCALITY,

State Louisiana

General locality Atchafalaya River

Locality Grand Lake - Mouth of

Atchafalaya Basin Main Channel

1956-1957

CHIEF OF PARTY

I. R. Rubottom Chief of Party
Fred Natella, Portland Photogrammetric Unit

LIBRARY & ARCHIVES

DATE May 1963

COMM-DC 61300

10524

DESCRIPTIVE REPORT - DATA RECORD

T-10524

PH 170

Project No. (II): ~~25170~~ Quadrangle Name (IV):

Field Office (II): Morgan City, Louisiana

Chief of Party: I. R. Rubottom

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: Fred Natella

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

Copy filed in Division of
Photogrammetry (IV)

Supplement Z, 14 March 1957

Supplement 1 dated 15 Jan. 1957

(III) 21 June 1957

Amendment dated 2 April 1959

Letter 73/rrj dated 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:
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): ST. MARTIN, 1935

Lat.: 29° 56' 59.333"

Long.: 91° 22' 48.283"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State:

Zone:

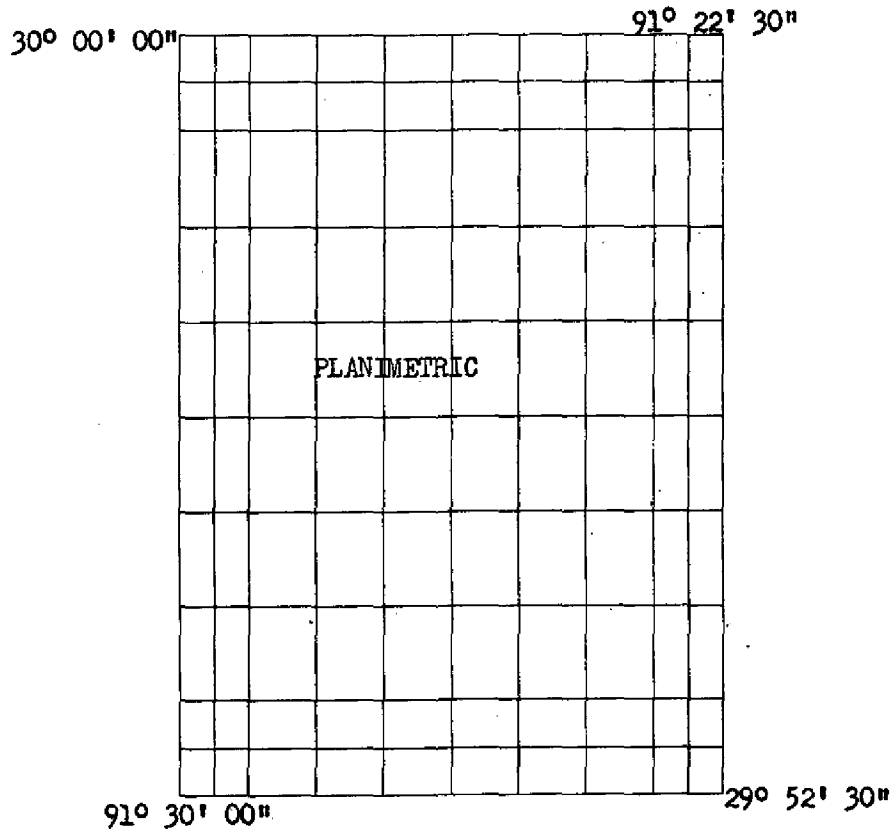
Y=

X=

Roman numerals indicate whether the item is to be entered by (I) Field Party, (II) 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): **M. C. Moody** Date: **January - February 1957**

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): **1-14-57 thru 2-18-57. Indicated by field inspection on field photographs. 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): **J. L. Harris** Date: **Oct. 1957**

Control checked by (III): **D. N. Williams** Date: **Nov. 1957**

Radial Plot or Stereoscopic Control extension by (III): **J. L. Harris** Date: **1-17-58**

Stereoscopic Instrument compilation (III):
 Planimetry Date:
 Contours Date:

Manuscript delineated by (III):
L. L. Mei, Compilation Date: **4-18-58**
L. L. Mei, Scribing Date: **6-3-58**
J. L. Harris, Stick-up Date: **7-22-60**

Photogrammetric Office Review by (III): **D. N. Williams, Rough Draft** Date: **4-29-58**
J. L. Harris, Advance Date: **Sept. 60**

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)			Stage of Tide
Number	Date	Time	Scale		
54801 thru 54803	10-15-56	11:02	1:20,000	Tide is mainly diurnal. Probably about 0.5 ft. above M.L.W. on this day.	
54836 thru 54838	"	11:45	"		

Tide (III)

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

Ratio of Ranges	Mean Range	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): 44
Shoreline (More than 200 meters to opposite shore) (III): 45
Shoreline (Less than 200 meters to opposite shore) (III): 25
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 3 Recovered: 3 Identified: 2
Number of BMs searched for (II): None 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-10524

2. AREAL FIELD INSPECTION

This area is located in the southern section of the Atchafalaya Basin Floodway and, except for the extreme southwestern corner, it is entirely within the floodway. See Field Inspection Report for Map T-10522 (≡) for description of this area.

The guide levee along the west and south limits of the floodway enters the map in the southwest section to run diagonally across the southwest corner, re-entering again along the south limits and meanders in an easterly direction for a mile or so before turning in a southerly direction to finally leave the map.

Atchafalaya Basin Main Channel, Grand Lake and the levee of the preceding paragraph are the salient features.

There is no permanent population in the area.

Petroleum is the chief industry. Due to the seasonal flooding, the trapping and fishing industries, once important, are practically none existant.

Two oil fields in the area are relatively new and are under development and expansion. Local pipelines and other temporary structures and features were not indicated as they are generally of a temporary nature subject to change and increase in number and become more complex as development progresses.

Photograph quality was excellent; no interpretation difficulties were encountered. Field inspection is believed to be complete and adequate. Field inspection notes appear on the following nine lens, 1:20,000 scale field photographs: 54786, 54801 through 54803 and 54836 through 54838.

3. HORIZONTAL CONTROL

All Bureau stations plotted on the project diagram were searched for and reported on Form 526.

Stations reported lost are as follows:

MYETTE, 1935.

LITTLE PIGEON, 1935.

No supplemental control was established.

All control searched for, recovered and identified was established by this bureau, except FLETCHER, USE which is a third-order station established by the Corps of Engineers.

4. VERTICAL CONTROL

Not applicable.

5. CONTOURS AND DRAINAGE

Contours inapplicable.

Drainage is by perennial streams, bayous and ditches. All of these are self evident on the photograph.

6. WOODLAND COVER

Woodland cover was classified in accordance with Project Instructions and is believed to be adequately covered by Item 2 of this report and field photographs.

7. SHORELINE AND ALONGSHORE FEATURES

The shoreline of Grand Lake is predominately the offshore edge of swamp. The mean high water line forms the shoreline of silt islands in Grand Lake and also of the bayous along their natural levees. A major portion of the fast shoreline will become apparent depending upon height of flood waters. This condition will begin to appear in January each year and continues into May or June, reaching a crest usually in March. The height of the crest varies from year to year depending upon snowfall, precipitation and other meteorological conditions.

Periodic tide in the area apparently is negligible; water level fluctuations resulting more from flooding. Consequently, there is no true foreshore.

Mud bars and flats do appear during the season of low water. Mud bars are usually found only near the main channels carrying the greater volume of water and are usually unstable.

There are no cliffs or bluffs.

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

8. OFFSHORE FEATURES

Offshore features are adequately covered by field inspection notes on the photographs. All are of minor importance.

9. LANDMARKS AND AIDS

There are none.

10. BOUNDARIES, MONUMENTS AND LINES

The boundaries between Iberia and St. Martin, Iberia and St. Mary and St. Martin and St. Mary Parishes affect this map. There are no other boundaries.

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

11. OTHER CONTROL

There was none established.

12. OTHER INTERIOR FEATURES

Buildings and roads were classified in accordance with project instructions.

There are no bridges or overhead cables over navigable waters.

All other features are adequately covered by field inspection notes 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, Boundaries, Project ^{PH} 25170, Part 1 of 3, to be submitted at a later date.

Special Report, Geographic Names, Project ^{PH} 25170, Part 1 of 3, to be submitted at a later date.

Data, Map T-10525, to be forwarded at a later date.

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

Data, Map T-10523, to be forwarded at a later date.

Data, Map T-9020 (Revision) to be forwarded at a later date.

Submitted:

Mart - C. Moody
Martin C. Moody
Cartographic Survey Aid

Approved:

Ira R. Rubottom

Ira R. Rubottom
Chief of Party

Jeff

PHOTOGRAMMETRIC PLOT REPORT

Map Manuscript T-10524

Project Ph-170

Refer to combined radial plot report for T-10515 and T-10523 thru T-10527 and attached correspondence which is included in the Descriptive Report for T-10527 (1957).

COMPILATION REPORT

Map Manuscript T-10524

Project Ph-170

Items 31 thru 35:

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

36. Offshore Details:

There are many foreshore areas of "trees in water".

37. Landmarks and Aids:

None.

38. Control for Future Surveys:

One object was pricked and described by the field party on photograph 54801. No mention was made in field report or by symbol as to the type of station this object was intended. It has been radially plotted and shown on the manuscript as a photo-hydro station. It is listed and described under Item 49, Notes to the Hydrographer.

39. Junctions:

Satisfactory junctions were made with T-10522 on the north, T-10523 on the west, T-10525 on the east and T-10526 on the south.

Items 40, 46 and 47:

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

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:

One object was located by radial plot method as a photo-hydro station.

East Gable, brown house, tin roof Photo, No. 54801

PHOTOGRAMMETRIC OFFICE REVIEW

T-10524

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 X 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. X 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.

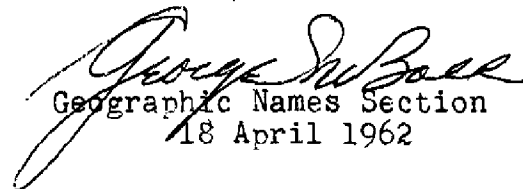
Compiler

Supervisor

43. Remarks:

48. Geographic Names:

Atchafalaya Basin Floodway
Atchafalaya Basin Main Channel
Bayou Grue
Big Bayou Pigeon
Grand Lake
Hooppole Bay
Hooppole Bayou
Little Bayou Pigeon
Main Pass
Millet Point
Pigeon Point
Smith Bayou
Taylor Point
Verdunville Canal


Geographic Names Section
18 April 1962

REVIEW REPORT
OF PLANIMETRIC MANUSCRIPTS
T-10515 and T-10523 thru T-10527
November 1962

61. General Statement

These are Six (6) of 31 planimetric maps of project PR-170, Atchafalaya River La. These maps were prepared as bases for Nautical Charts and future Hydrographic Surveys.

62. Comparison with Registered Topographic Surveys

T-8897	1:10000	1946	Shoreline Surveys
T-8898	1:10000	1946	"
T-8899	1:10000	1946	"

These planimetric surveys supersede the above listed shoreline surveys of common area for nautical charting purposes.

63. Comparison with Maps of Other Agencies

Centerville, La.	1:62,500	C. of E.	1959
Jeanerette, La.	1:62,500	C. of E.	1954
Rapidesville, La.	1:62,500	C. of E.	1953

A comparison shows that the above maps are in good agreement except for minor shoreline and cultural details.

64. Comparison with Contemporary Hydrographic Surveys

There are no contemporary hydrographic surveys within the area of these manuscripts.

65. Comparison with Nautical Charts

881 1:50,000 September 1962

There are no differences of importance except for a dredged channel that is shown on the chart, at Lat. $30^{\circ} 57.0'$ Long. $91^{\circ} 15.8'$, that is subsequent to the date of the manuscript.

66. Adequacy of Results and Future Surveys

These maps were prepared for bases for Nautical Charts and future Hydrographic Surveys and are within the required accuracy.

Submitted by:



L. C. Lande

Approved by:

Charles Lawrence
Chief, Cartographic Branch

Lawrence J. Taylor
Chief, Nautical Chart Division

Jewell 3/18/63
Chief, Photogrammetry Division

Horace B. Conner
Chief, Operations Division

