

9022

Diag. Cht. No. 1116-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC

Field No. PH - 21 (47) Office No. T-9022

LOCALITY

State LOUISIANA

General locality LOUISIANA COAST

Locality LAKE PALOURDE-BAYOU BOEUF-

INTRACOASTAL WATERWAY

194/ 51

CHIEF OF PARTY

C. W. Clark, Chief of Party.

A. L. Wardwell, Tampa Photogrammetric
Office.

LIBRARY & ARCHIVES

DATE December 6, 1951

9022

DATA RECORD

T-9022

Project No. (II): Ph-21(47)

Quadrangle Name (IV): Amelia

Field Office (II): Morgan City, La.

Chief of Party: Charles W. Clark

Photogrammetric Office (III): Tampa, Fla.

Officer-in-Charge: Arthur L. Wardwell

Instructions dated (II) (III): Feb. 12, 1948

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV): 5-22-50

Date reported to Nautical Chart Branch (IV): 5-26-50

Applied to Chart No.

Date:

Date registered (IV): 10-25-51

Publication Scale (IV): 1:20,000

Publication date (IV): Sept 1951

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

~~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): PALOURDE, 1931

Lat.: 29°42' 23".378(719.8m)

Long.: 91°05' 08".137 (218.7m)

Adjusted
~~MEAN SEA LEVEL~~

Plane Coordinates (IV):

State: Louisiana Zone: South

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)

DATA RECORD

Field Inspection by (II): John S. Howell

Date: May 1948

Planetable contouring by (II): Inapplicable

Date:

Completion Surveys by (II): C. A. Navin

Date: 2 Mar. 1951

Mean High Water Location (III) (State date and method of location): Date of photographs

Air Photo. Compilation

Projection and Grids ruled by (IV): WEW (Washington Office)

Date: 20 Feb. 1948

Projection and Grids checked by (IV): WEW (Washington Office)

Date: 20 Feb. 1948

Control plotted by (III): E. T. Ogilby

Date: 23 Dec. 1948

Control checked by (III): W. W. Dawsey

Date: 23 Dec. 1948

Radial Plot ~~of stereoscopic~~

Date: 28 Mar. 1949

~~Radial Plot of stereoscopic~~ by (III): M. M. SlavneyStereoscopic Instrument compilation (III):
Planimetry
Contours

Date:

Inapplicable

Date:

Manuscript delineated by (III): R. E. Smith, Jr.

Date: July 1949

Photogrammetric Office Review by (III): J. A. Giles

Date: Aug 1949

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

Date:

Camera (kind or source) (III):
U.S.C.&G.S. 9 Lens

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
22022	3-13-48	1450	1:20,000	No Tide
22023	3-13-48	1452	"	
22024	3-13-48	1453	"	
22075	3-13-48	1552	"	
22076	3-13-48	1553	"	
22077	3-13-48	1554	"	

Tide (III)

Reference Station: No Tide (See item 66 Review Report)
Subordinate Station:
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV): *L. Martin Jozik*

Date: 3-30-57

Final Drafting by (IV): *E.L. Hunter*
H.C. Webber

Date: 8-21-57

Drafting verified for reproduction by (IV): *C. Kopiec* *H. Steifler*

Date: 8-31-57

Proof Edit by (IV): *H. Steifler*

Date: 9/5/57

Land Area (Sq. Statute Miles) (III): 60

Shoreline (More than 200 meters to opposite shore) (II): 5.8 St. miles

Shoreline (Less than 200 meters to opposite shore) (III): 60 St. miles

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): 10

Recovered: 7

Identified: 5

Number of BMs searched for (II): None

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): 1

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

Remarks:

SUMMARY T-9022

This planimetric survey is one of a series of 21 maps at 1:20,000 in the Gulf Coast area of Louisiana - each $7\frac{1}{2}$ minutes in latitude and longitude.

The area covered by this project includes Houma, Louisiana, on the east to Vermilion Bay on the west and extends from the vicinity of the Intracoastal Waterway southward to Atchafalaya and Fourleague Bays.

Shoreline surveys for the Intracoastal Waterway of Project Ph-14(46) at 1:10,000 scale furnished some detailed information along both sides of the Waterway area for the planimetric maps of this project.

Adjoining this project to the west are 17 contemporary topographic quadrangles at 1:20,000 scale in project Ph-33(48). Adjoining to the east and covering the Intracoastal Waterway to Florida are a series of revision sheets at 1:20,000 scale of project Ph-1(45).

FIELD INSPECTION REPORT

QUADRANGLE 9022

Project Ph-21(47)

May 1948

1. DESCRIPTION OF THE AREA

This quadrangle is bounded on the east by longitude $91^{\circ} 00'$, on the south by latitude $29^{\circ} 37.5'$, on the west by longitude $91^{\circ} 07.5'$, and on the north by latitude $29^{\circ} 45.0'$.

The principal cultural features are the Southern Pacific Railroad, U. S. Highway 90, and the Intracoastal Canal; all of which cross the quadrangle in an east-west direction. Bayou Boeuf runs in a north-south direction near the western limit of the quadrangle.

No large area is devoted to cultivation, but at one time the area was a source of much timber. The vegetation is primarily hardwood and where ever the large stands of timber are found, the land is a thick, matted swamp.

The field work was performed at a time when the water was very high and much of the area was flooded.

2. COMPLETENESS OF FIELD INSPECTION

Field inspection is believed to be complete and adequate and was performed in accordance with project instructions, dated 12 February 1948.

3. INTERPRETATION OF PHOTOGRAPHS

All detail appears to be clear and distinct on the photographs and no difficulty should be encountered by the compiler.

4. HORIZONTAL CONTROL

All USC&GS horizontal control stations within the quadrangle were recovered and identified on the field photographs. In addition several stations east of the quadrangle limit were recovered and identified to assist in controlling the radial plot.

All identification is positive.

5. VERTICAL CONTROL

(not applicable to this project)

6. CONTOURS AND DRAINAGE

(not applicable to this project)

7. MEAN HIGH WATER LINE

Mean high water line in the quadrangle is to be drawn as viewed on the photographs. One small beach about 150 meters long, is located in the northeast section of the quadrangle. Due to the high stage of water, at the time of field inspection, no mean high waterline was determined for this area. *No tide - see item 66 Review Report).*

8. LOW WATER LINE

The low water line is synonymous with the apparent shoreline.

9. WHARVES AND SHORELINE STRUCTURES

All wharves and shoreline structures were indicated on the photographs. One new slip was located directly on photo 22024 by plane table methods.

10. DETAIL OFFSHORE FROM THE MEAN HIGH WATER LINE

(not applicable to this quadrangle)

11. LANDMARKS AND AIDS TO NAVIGATION

No landmarks were selected in this quadrangle.

One fixed aid to navigation, Bayou Cocodrie Leading Light 38, was located direct on photo 22022 in addition to its having been located on the previous project, Ph-14(46).

9

12. HYDROGRAPHIC CONTROL

(not applicable to this quadrangle)

13. LANDING FIELDS AND AERONAUTICAL AIDS

There are no landing fields or aeronautical aids in this quadrangle.

14. ROAD CLASSIFICATION

All roads were classified in accordance with current instructions.

15. BRIDGES

All bridge information for the area covered by this report as listed in the U. S. Engineers "List of Bridges Over Navigable Waters of the United States" 1941 edition, was verified in the field, all clearances were carefully measured with a steel tape, and the published descriptions and clearances were found to be correct except for the following discrepancies, which were reported to the Local District Engineer as listed on the following pages.

Bridges over Bayou Boeuf were measured while checking topographic sheet T-8893 and the results were indicated on the topographic sheet and not the photographs.

Two bridges over Bayou Black near Gibson, Louisiana were measured and the measurements are noted on photograph 22022.

The U. S. Highway 90 bridge is of recent construction and is not listed in the "List of Bridges Over Navigable Waters of the United States", 1941 edition. The bridge listed on page 40 is the old bridge that was replaced.

The second bridge in Gibson, Louisiana is old and dilapidated and is limited to light traffic. The results of the field measurements of this bridge compare favorably with those listed in the "Bridge Book"

See attached page of discrepancies.

BRIDGE CLEARANCES

Bridge Name and Locality	Bridge Book Page	Shown on Chart No.	Located on	Lat. Long.	Checked in Field	Remarks
Gibson, La. East of Hwy. T-90V	40	shown on 1050	photo 22022	29°41.2' 90°59.5'	J.S.H. May 1948	Hor. Cl. correct, Vert. Cl. 2.0' (MHW est.) instead of 0.4'. ^{36.5} Swing bridge.
Gibson, La. East of Hwy. T-90V	40	not shown on 1050	photo 22022	29°41.0' 90°00.1'	J.S.H. May 1948	This is a new vertical lift state highway bridge in a new location from the listed bridge which has been removed. Hor. Cl. 49.7'. Vert. Cl. closed 4.8' (MHW est.) Vert. Cl. open 48.6 (MHW est.)
<u>Bayou Boeuf</u>						
Hwy. T-90V	46	shown on 1050	T-8895	29°39.6' 90°05.8'	J.S.H. May 1948	Vert. Cl. correct as listed, Right Span Hor. Cl. 65.0' as reported 1947 instead of 62.2' as listed *Left Span Hor. Cl. 66.8' instead of 60.5' as reported in 1947 or 66.4' as listed. <u>Swing bridge</u> .

*The fender piling protecting the left span headwall has been completely swept away by passing traffic and this clearance will be materially reduced when the fender is replaced.

8. //

16. BUILDINGS AND STRUCTURES

All substantial dwellings and other important buildings were indicated on the photographs.

17. BOUNDARIES

The quadrangle contains several parish boundaries that have been indicated on the photographs in their approximate positions. On those boundaries that do not follow natural objects, two or more points have been identified. These boundaries are not permanently marked. Within the quadrangle and to the north and east of the project six points on boundary lines have been identified.

Other than parish boundaries, no other boundaries are within the limits of this quadrangle.

Boundaries will be the subject of a special report to be submitted at a later date.


18. GEOGRAPHIC NAMES

Geographic names were covered adequately by "Special Report on Geographic Names; Houma, Louisiana to Vermilion Bay, Louisiana; Project Ph-14(46), dated July 1947".

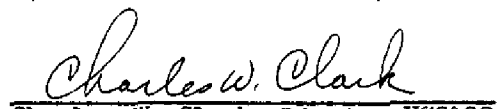
19. PREVIOUS SURVEYS; Ph-14(46)

Ozalid prints of T-8892 and T-8893 showing the Intracoastal Waterway through the quadrangle, were inspected in accordance with Paragraph 20 of the instructions for the project. Notes were made directly on the prints, cross referencing them to the appropriate photographs, where changes and additions are necessary.

Submitted by


John S. Howell
Cartographer

Approved and forwarded by


Charles W. Clark, Lieut., USC&GS
Chief of Party

COMPILATION REPORT T-9022

PHOTOGRAMMETRIC PLOT REPORT

This is the subject of a special report submitted to the Washington Office, 5 May, 1949 and is included in Descriptive Report T-9033.

31. DELINEATION

This quadrangle was compiled by the graphic method.

Most of the detail on the film positives of shoreline manuscripts T-8921, T-8892 and T-8893, project PH 14(46), reduced to 1:20,000 scale did not conform to the pass points established by the radial plot run in this office. That which did conform was traced directly to the map manuscript. The remainder was delineated by the graphic method.

The field inspection was adequate along the shoreline and most of the inshore work. Where field inspection was neglected or discrepancies seen, notes to that effect were put on the discrepancy overlay for the attention of the field editor.

32. CONTROL

The density and placement of secondary control was such that no difficulty was encountered in cutting in detail points for the compilation of the manuscript.

33. SUPPLEMENTAL DATA

Film positives of shoreline manuscripts T-8921, T-8892 and T-8893, project PH 14(46) were used as reference material for the delineation of this manuscript.

34. CONTOURS AND DRAINAGE

Contours are inapplicable to this project.

No difficulty was encountered in the interpretation or delineation of drainage.

35. SHORELINE AND ALONGSHORE DETAIL

The shoreline inspection was adequate and no difficulty was encountered in its delineation. ~~The shoreline in Lake Palourde was delineated as approximate.~~

36. OFFSHORE DETAIL

There are no offshore details that need investigation by the hydrographic party.

37. LANDMARKS AND AIDS

There are no landmarks.

One fixed aid to navigation "BAYOU COCODRIE LEADING LT. 38" was transferred to the office photographs and cut in radially. The position of this light as shown on T-8892 PH 14(46) does not agree with the position shown on the manuscript. Two Forms 567, one for deletion of this aid from its former position, and one for charting are submitted with this report.

38. CONTROL FOR FUTURE SURVEYS

One card, Form 524 is being submitted. This station will be included under Item 49.

39. JUNCTIONS

T-9027 to the south: in agreement

T-9021 to the west: in agreement

Napoleonville quadrangle; Mississippi River Commission, 1:62,500, 1935, to the north: in agreement except for the alternate route of the Intracoastal Waterway dug since publication of the quadrangle.

Gibson quadrangle, Mississippi River Commission, 1:62,500, 1944 to the east: in agreement.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with topographic quadrangle Morgan City, La., Mississippi River Commission scale 1:62,500 edition of 1935, reprinted 1938.

The manuscript and quadrangle appear to be in good agreement with the exception of the alternate route of the Intracoastal Waterway dug since publication of the quadrangle. Some cultural changes were also noted.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 880, scale 1:40,000, edition of Nov. 1949, bearing a print date of Nov. 28, 1949. That part of the chart that had 1:10,000 photograph coverage is in agreement with the manuscript. The detail of remainder of the chart was taken from the Morgan City quadrangle and the same differences were noted as stated under Item 46.

Comparison was also made with chart 1050, scale 1:175,000 edition of 1939 bearing a print date of Nov. 3, 1947. Due to the large difference in scale no major differences could be discerned except that areas shown on the chart as marsh are actually swamp.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

NONE.

Rexford E. Smith, Jr.
Rexford E. Smith, Jr.
Cartographic Survey Aid

Approved and Forwarded:

Arthur L. Wardwell
Arthur L. Wardwell,
Chief of Party

16

48. GEOGRAPHIC NAME LIST

All geographic names were taken from a field copy of a Special Report on Geographic Names - Houma to Vermilion Bay, Louisiana. This report was prepared at the time the field work for Project PH-14(46) was being done and is subject to change by the Geographic Name Section of the Washington Office.

- ALLIGATOR BAYOU
- AMELIA
- ASSUMPTION PARISH
- AVOCA ISLAND

- BAY WALLACE
- BAYOU BLACK
- BAYOU BLACK SETTLEMENT
- BAYOU BOEUF
- BAYOU CAROLINE
- BAYOU CHENE
- BAYOU CHERAMI
- BAYOU COCODRIE
- BAYOU L'OURSE
- BAYOU L'OURSE SCHOOL
- BAYOU MORGAN CITY
- BAYOU SHERMAN
- BOEUF

- GUISTROZ BAYOU

- HOTHMAN BAYOU

- INTRACOASTAL WATERWAY
- INTRACOASTAL WATERWAY ALTERNATE ROUTE

- LAFOURCHE PARISH
- LAKE BRIDGE
- LAKE PALOURDE
- LILLY BOOM CUTOFF
- LOUISIANA

- OLD SPANISH TRAIL

- U. S. NO. 90

- SOUTHERN PACIFIC R R
- STATE NO. 280
- STATE NO. 894
- ST. ANDREWS CHURCH
- ST. MARTIN PARISH
- ST. MARY PARISH

- TERREBONNE PARISH
- TIGER ISLAND

URSA

Names approved
3-23-51
a.f.w.

50 PHOTOGRAMMETRIC OFFICE REVIEW

T. 9022

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

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy MMS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) RRW ~~7. Photo hydro stations~~ ~~8. Bench marks~~ ~~9. Profile of existing lines~~ 10. Photogrammetric plot report RRW 11. Detail points RRW

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline RRW ~~13. Low water line~~ ~~14. Rocks, shoals, etc.~~ 15. Bridges RRW 16. Aids to navigation RRW ~~17. Landmarks~~ 18. Other alongshore physical features RRW 19. Other along-shore cultural features RRW

PHYSICAL FEATURES

20. Water features RRW 21. Natural ground cover RRW ~~22. Planetable contours~~ ~~23. Stereoscopic~~ ~~24. Contours in general~~ ~~25. Spot elevations~~ 26. Other physical features RRW

CULTURAL FEATURES

27. Roads RRW 28. Buildings RRW 29. Railroads RRW 30. Other cultural features RRW

BOUNDARIES

31. Boundary lines RRW ~~32. Public land lines~~

MISCELLANEOUS

33. Geographic names RRW 34. Junctions RRW 35. Legibility of the manuscript RRW 36. Discrepancy overlay RRW 37. Descriptive Report RRW 38. Field inspection photographs RRW 39. Forms RRW
40. Robert P. W. Agnew James A. Giles
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:

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT ONE

Neoyon City, Louisiana

10 May, 1941

I recommend that the following objects which have ~~(been removed)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by Rexford E. Smith, Jr.
Tampa Photo. Office

Charles W. Clark,	Chief of Party.
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[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* charted objects should be considered for the charts of the area and not be

Review Report T-9022
Planimetric Map
March 30, 1951

62. Comparison with Registered Topographic Surveys

T-6179 (Intracoastal Waterway)	1:20,000	1934
T-8892	"	1:10,000 1946
T-8893	"	1:10,000 1946
T-8921	"	1:10,000 1946

A substantial discrepancy in horizontal position exists at the Bayou Black Settlement and for some distance to the east along the Intracoastal Waterway between this survey and the plane table traverse for Section 18 of T-6179.

According to the Descriptive Report for T-6179 the traverse covering this area closed 87 meters long.

Adequate triangulation in this area controlled two different radial plots of T-8893 and T-9022, (the latter being stronger) and both these surveys are in agreement.

Under these circumstances the positions for T-9022 supersede those found on Section 18 of T-6179.

63. Comparison with Maps of Other Agencies

Morgan City, La., Quadrangle, 1:62,500 U.S.E. 1938

64. Comparison with Contemporary Hydrographic Surveys

None contemporary.

65. Comparison with Nautical Charts

Chart 880	1:40,000	November 1949
Chart 881	1:50,000	September 1949
Chart 1116	1:458,596	May 1950 ✓
Chart 1276	1:80,000	October 1950

66. Miscellaneous

(a) Swamp Areas are comprised of mixed hardwoods.

(b) Tide - although there is no tide in this area there are changes in the water level. The high and low waters vary as much as two feet from normal due to wind conditions.

(c) Boundaries - the boundary line between Assumption and Terrebonne Parishes is described as a "direct", i.e. straight, line. However, the markers recovered at the Southern Pacific RR and at State Highway 280

are maintained by the State Highway Department. Since the "direct" line has never been surveyed, the boundary depicted is the one accepted by the local authorities.

Reviewed by:

L. Martin Gazik
L. Martin Gazik

Approved by:

S. V. Griffith
Chief, Review Section H.R.B. 11/9/51
Division of Photogrammetry

M. Edmonston
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Division of Photogrammetry
mgf

W. M. Acaife
Chief, Division of Coastal
Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. _____

Record of Application to Charts

[illegible]

M.2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.