9028

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-9028

LOCALITY

State LOUISIANA

General locality LOUISIANA DELTA

Locality LAKE COCODRIE-LAKE HACKBERRY

INTRACOASTAL WATERWAY

194 51

CHIEF OF PARTY

C.W.Clark, Chief of field Party.
A.L.Wardwell, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE Mar-17-1952

B-1870-1 (1)

9028

DATA RECORD

T - 9028

Project No. (II): Ph-21 (47) Quadrangle Name (IV): Lake Cocodrie - Lake Hackberry, La.

Field Office (II): Morgan City, La. Chief of Party: Charles W. Clark

Photogrammetric Office (III): Tampa, Florida Officer-in-Charge: Arthur L. Wardwell

Instructions dated (II) (III): February 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): 3-29-50 Date reported to Nautical Chart Branch (IV): 3-29-50

Applied to Chart No. Date: Date registered (IV): 4-8-50

Publication Scale (IV): 1:20,000 ~~Publication~~ Issue date (IV): Oct 51

Geographic Datum (III): N.A. 1927 Vertical Datum (III): M H W

~~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): TT 38 F (USGS) 1932

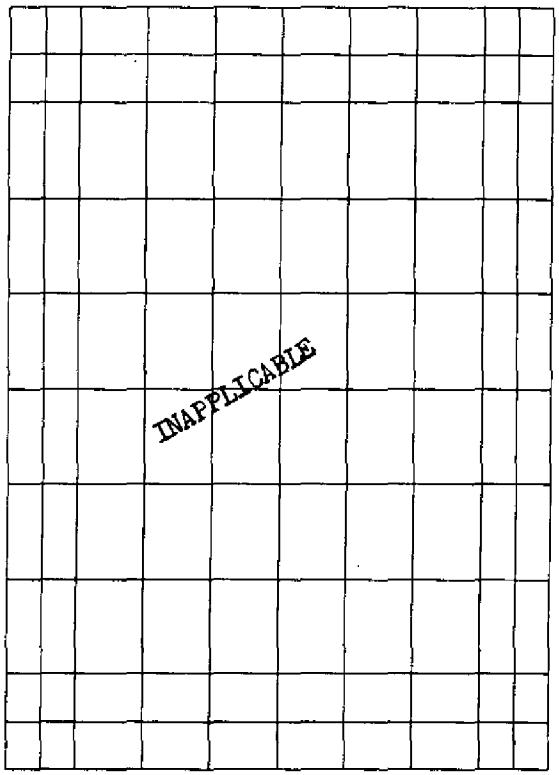
Lat.: 29° 37' 18.67" (574.8m) Long.: 90° 54' 23.90" (693.0m) Adjusted ~~Unadjusted~~

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): W.M. Reynolds Date: May, 1948

Planetable contouring by (II): Inapplicable Date:

Completion Surveys by (II): C.A. Navin Date: March, 1951

Mean High Water Location (III) (State date and method of location):
Field inspection May 1948 and air photo compilation – date of photographs 3-13-48.

Projection and Grids ruled by (IV): W.E.W. (W.O.) Date: March 2, 1948

Projection and Grids checked by (IV): W.E.W. (W.O.) Date: March 2, 1948

Control plotted by (III): E.T.Ogilby Date: Dec. 22, 1948

Control checked by (III): W.W. Dawsey Date: Dec. 22, 1948

Radial Plot ~~or Stereoscopic Control extension~~ by (III): M.M. Slavney Date: April 18, 1949

Stereoscopic instrument compilation (III):
Planimetry Inapplicable Date:
Contours Inapplicable Date:

Manuscript delineated by (III): R.A. Reece Date: May, 1949

Photogrammetric Office Review by (III): J.A. Giles Date: May, 1949

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

M-2618-12(4)

Camera (kind or source) (III): Nine-Lens, U.S.C. & G.S. 8.24" focal length

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
21931	March 13, 1948	11:32	1: 20,000	No tide
21932	"	11:34	"	
21933	"	11:35	"	
21996	"	14:10	"	
21997	"	14:11	"	
31998	"	14:12	"	

Tide (III)

Ratio of Ranges	Mean Range	Spring Range

Reference Station:
Subordinate Station: No tide
Subordinate Station:

Washington Office Review by (IV): L. Martin Zajic — Date: May 25, 1951

Final Drafting by (IV): W. Taylor — Date: Oct. 10, 1951

Drafting verified for reproduction by (IV): C. Kupiec — Date: Oct 11, 1951

Proof Edit by (IV): L. Martin Zajic — Date: 10-19-51

Land Area (Sq. Statute Miles) (III): 63
Shoreline (More than 200 meters to opposite shore) (III): 18
Shoreline (Less than 200 meters to opposite shore) (III): 56
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): 46 Recovered: 3 Identified: 3
Number of BMs searched for (II): None Recovered: None Identified: None
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

M-2618-12(4)

Summary T-9028

This planimetric survey is one of a series of 21 maps at 1:20,000 in the Gulf Coast area of Louisiana. Except for T-9032 and T-9033, each is 7½ 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, falling within the project, furnished some detailed information along both sides of the Waterway ~~and~~ 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).

Bordering the three southernmost quadrangles of this project is an early photo compilation project completed at about 1935.

THE FIELD INSPECTION REPORT COVERS QUADRANGLES T-9028, T-9029, T-9030, AND IS BOUND WITH T-9030.

MAP T-9028 PROJECT NO. Ph-21(47) SCALE OF MAP 1: 20,000 SCALE FACTOR --------

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
	G-1244	N.A.	29 38 17.098			526.4 (1320.9)	
ARSENAUX 1931	P.28	1927	90 57 13.767			370.3 (1243.6)	
	G-2386	"	29 29 25.453			783.7 (1063.6)	
COPASAW 1934	P.82		90 57 17.860			481.1 (1135.2)	
	Gibson	"	29 37 18.67			574.8 (1272.5)	
TT38F (USGS) 1932	Quad 225		90 54 23.90			643.0 (971.2)	
	"	"	29 34 10.994			338.5 (1508.8)	
BM 1383 + 00 (use)	A-13		90 56 37.218			1001.8 (613.2)	
STATION 1405+0	G.P.		29 34 10.81			640.7	(Not used in
(use) 1934	Ha. Coast P. 101		90 57 05.16			138.9	plot)

1 FT. = .3048006 METER

COMPUTED BY: J. Council DATE Nov. 5, 1948 CHECKED BY: H.R. Rudolph DATE Nov. 15, 1948

M-2388-12

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PHOTOGRAMMETRIC PLOT REPORT

This report was submitted to the Washington Office on May 5, 1949 and is filed in the Descriptive Report for T-9033.

31. DELINEATION

The graphic method was used in delineating the manuscript.

The photographs used for cutting in detail points and delineation were clear and of fair scale.

Field inspection was adequate for the delineation of the map manuscript.

Due to the discrepancies between the radial plots for Ph-14(46) and Ph-21(47) (reference Photogrammetric Plot Report) this map manuscript was delineated from the photographs. Film positives of shoreline manuscripts T-8890, T-8891 and T-8892 were used mainly for comparison of detail.

32. CONTROL

Sufficient control was provided to cut in necessary detail points. All control was positively identified and well placed.

33. SUPPLEMENTAL DATA

None, other than the film positives mentioned in Item 31.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

All drainage was apparent on the photographs and no difficulty was encountered in its delineation

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate for delineation. The shoreline of Lake Cocodrie in the northwest part of the quadrangle was obscured by large, overhanging trees so only an approximate shoreline was shown.

Piling ~~have~~ has been placed across the mouth of a few creeks and lakes along the Intracoastal Waterway, apparently to check floating hycinths from entering the waterway. The positions of these piling were transferred from film positive T-8891 except at Lake Hackberry. The piling at this point were identified in the office on photograph 21328 and shown accordingly. The positions differ slightly from those shown on the film positive.

No low-water or shoal lines have been shown, reference Item 9.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

There are no landmarks.

There are five aids to navigation. Two of these aids, BAYOU COCODRIE 2 and RANGE "B" REAR, were identified on the office photographs and located during laying of the radial plot. Their positions differ from those shown on T-8891, project Ph-14(46). The other three lights could not be positively identified on the office photographs. These lights were transferred from T-8891 by holding the two identified lights in exact coincidence with the same lights on the film positive. See Reviews Report— Item 65.

38. CONTROL FOR FUTURE SURVEYS

Five recoverable topographic stations are shown on the manuscript. Three of these stations were located on Project Ph-14(46) but due to discrepancies in the radial plots the stations were radially located on this quadrangle and their positions corrected accordingly. The other two stations, PBM 20 and PBM 28 were located in the field by planetable and were plotted directly on the manuscript. See Reviews Report— Item 66.

39. JUNCTIONS

Junctions are in agreement with T-9027 on the west and T-9029 on the east. The junction with T-5288 (1932) on the south is all marsh land with the exception of three canals. The small canal on the east has been dug since the completion of T-5288. There is a slight disagreement in the junction of Bayou Copasaw and it has been delineated 1.5cm beyond the neat line. The junction to Bayou Penchant is in disagreement; however, the shoreline of this Bayou is shown as approximate on T-5288 due to lack of photographic coverage. This canal has been delineated 3.5 cm beyond the neat line.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement. See Item 67.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S. G.S. quadrangle GIBSON, 1939, scale 1: 62,500. On the whole they were found to be in good agreement. The Intracoastal Waterway channel has been changed at latitude 29° 35', longitude 90° 57' and several minor canals have been dredged south of the waterway.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart No. 880, scale 1: 40,000 published in November 1949 and bearing a print date of November 28, 1949. The shoreline sheets mentioned in Item 31 were the source of planimetry for this nautical chart. The manuscript and chart are in good agreement except for the slight displacement of details due to the difference in the two radial plots.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Richard A Reece

Richard A. Reece
Cartographic Survey Aid

Approved and Forwarded:

Arthur L. Wardwell

Arthur L. Wardwell,
Chief of Party.

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.

BAYOU BLACK
BAYOU COCODRIE
BAYOU COPASAW
BAYOU PENCHANT
COPASAW CANAL
INTRACOASTAL WATERWAY
LAKE COCODRIE
LAKE HACKBERRY
MT PILGRAM CHURCH
OAK FOREST
SHELL CANAL
ST. PAUL BAYOU
U.S. NO. 90
[redacted]
Terrebonne Parish

Name approved
5-28-51
a.g.w.

49. NOTES FOR THE HYDROGRAPHER

The following topographic stations are usable for hydrographic control:

PBM	20	(U.S.E.)	1934
PBM	25	(U.S.E.)	1934
PBM	27	(U.S.E.)	1934
PBM	28	(U.S.E.)	1934 ⊛
PBM	29	(U.S.E.)	1934

⊛ Rejected. See Review Report.

Form T-2

50 PHOTOGRAMMETRIC OFFICE REVIEW

T-9028

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

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) J.G. 7. Photo hydro stations 8. Bench marks 9. Plotting of sextant fixes 10. Photogrammetric plot report J.G. 11. Detail points J.G.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline J.G. 13. Low-water line 14. Rocks, shoals, etc. 15. Bridges 16. Aids to navigation J.G. 17. [illegible] 18. Other alongshore physical features J.G. 19. Other alongshore cultural features J.G.

PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. Plantable contours 23. Stereoscopic instrument contours 24. Contours in general 25. Spot elevations 26. Other physical features J.G.

CULTURAL FEATURES

27. Roads J.G. 28. Buildings J.G. 29. Railroads 30. Other cultural features J.G.

BOUNDARIES

31. Boundary lines J.G. 32. Public land lines J.G.

MISCELLANEOUS

33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of the manuscript J.G. 36. Discrepancy overlay J.G. 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G.

40. Jesse A. Giles — Reviewer; William A. Rasure — 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:

M-2623-12

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED / ~~XXXXXXXXXX~~ } STRIKE OUT ONE

Morgan City, La. 1 March, 19 51

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on *(~~disapproved~~)* the charts indicated.

The positions given have been checked after listing by C. A. Navin

George E. Morris, Jr.
Chief of Party.

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D.M. METERS	LONGITUDE ° ′	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
Range A Rear Lt.	BAYOU COCODRIE,—Red circular daymark with yellow border on white post.		29 37	00.0	90 58	1518	NA 1518	plane-table T-9028	1951		x		880 1050
	Prepared at Washington Office by L. Martin Gazik, 5-24-51												

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* aids to navigation shall be reported on this form. The data should be considered for the charts of the area and not by

Form 567
April 1945 "PHOTOGRAMMETRIC REVIEW SECTION"

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED / ~~TO BE DELETED~~ — STRIKE OUT ONE

Morgan City, Louisiana 11 May, 1948

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

The positions given have been checked after listing by Richard L. Reece
Tampa Photogrammetric Office

Charles N. Clark
Lieut.
Chief of Party.

STATE LOUISIANA

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° '	LATITUDE D.M. METERS	LONGITUDE ° '	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
LT. 2	BAYOU COCODRIE — Red triangular daymark with yellow border on tower ~~on~~mud sills.		29 35	577	90 57	1499	N.A. 1927	Rad. Plot T-9028	1947		X		880 1050
LT. 14	BAYOU COCODRIE — Red triangular daymark with yellow border on skeleton tower.		29 36	288	90 58	670	"	"	"		X		"
RANGE A&B FRONT LT'S	BAYOU COCODRIE — Red diamond daymark with yellow border on pile structure.		29 36	1420	90 58	1302	"	"	"		X		"
RANGE B REAR LT.	BAYOU COCODRIE — Red circular daymark with yellow border on white post.		29 36	1234	90 58	1006	"	"	"		X		"
RANGE A REAR LT.	BAYOU COCODRIE — Red Circular daymark with yellow border on white post.		29 36	1786	90 58	1488	"	"	"		X		"

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by

Review Report T-9028
Planimetric Map
May 25, 1951

62. Comparison with Registered Topographic Surveys

T-6179	(Intracoastal Waterway)	1:20,000	1934
T-8890	"	1:10,000	1946
T-8891	"	1:10,000	1946
T-8892	"	1:10,000	1946

A substantial discrepancy in horizontal position exists in the LAKE COCODRIE area between this survey and the planetable traverse for Section 18 of T-6179.

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

Although the radial plot report for T-8890, 8891 and 8892, ~~included~~ in Descriptive Report for T-8889, would indicate that not as much control was available as necessary to make a strong plot, the horizontal position obtained by that plot is in fair agreement with the radial plot for this survey which had adequate triangulation for control.

Under these circumstances the horizontal positions for T-9028 supersedes that found on Section 18 of T-6179..

63. Comparison with Maps of Other Agencies

Gibson, La., Quadrangle, U.S.G.S., 1:62,500 1944

New canals dredged in the oil area in the northern part of this planimetric survey are the only significant differences between the two maps.

64. Comparison with Contemporary Hydrographic Surveys

No hydrographic survey

65. Comparison with Nautical Charts

Chart 880	1:40,000	November 1949
1050	1:175,000	April 1950
1116	1:458,596	May 1950

Further canal dredging in the oil area in the northern part of this survey are minor changes that may be made to Chart 880.

A new position for the BAYOU COCODRIE RANGE B REAR LT. has been submitted on Form 567, dated March 1, 1951, while the positions of the other four lights in the LAKE COCODRIE area submitted May 11, 1948, were verified at the same time during a field check.

66. Remarks

The 4 U.S.E. bench marks along the INTRACOASTAL WATERWAY plot, are described and have been recovered as being, in the water. Positions and descriptions of these bench marks, used as topographic stations, are filed under T-8890 and T-8891 on Forms 524.

PBM 28 has been rejected since it plotted ashore some 15 to 20 meters from the canal's edge, while the description on Form 524 places it in the WATERWAY.

67. Adequacy of Manuscript

This compilation complies with project instructions and the National Standards of Map Accuracy.

68. Field Edit - Considering the lack of development in this bayou country and that much of this area was covered by recent surveys along the INTRACOASTAL WATERWAY in 1946 (Listed in Item 62) a field check of a few items was requested rather than a complete field edit.

Reviewed by:

L. Martin Gazik

L. Martin Gazik

Approved by:

S. V. Griffin 2/26/52

Chief, Review Section
Division of Photogrammetry

H. M. Edmonston

Chief, Nautical Charts Branch
Division of Charts

O. S. Reading

Chief, Division of Photogrammetry

Carl D. Hatton

Chief, Div. Coastal Surveys