

9024

Diag. Cht. No. 1116-2 & 1276-2.

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-9024

LOCALITY

State LOUISIANA

General locality LOUISIANA COAST

Locality ATCHAFALAYA BAY- BELLE ISLE-WAX LAKE

19A 50

CHIEF OF PARTY

C. W. Clark, Chief of Field Party.

A. L. Wardwell, Tampa Photogrammetric Office.

LIBRARY & ARCHIVES

DATE February 9, 1953

4209

DATA RECORD

T -9024

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

Quadrangle Name (IV):

Belle Isle, La,

Field Office (II): Morgan City, La

Chief of Party: Chas W. Clark

Photogrammetric Office (III): Tampa, Fla.

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): 4-3-50

Date reported to Nautical Chart Branch (IV): 4-7-50

Applied to Chart No.

Date:

Date registered (IV): 6-16-51

Publication Scale (IV): 1: 10,000

Issue
Publication date (IV): April 1952

Geographic Datum (III): N.A. 1927

Vertical Datum (III): M.H.W.

~~Mean Low Water~~ 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): HOG, 1933

Lat.: 29° 34' 21."129 (650.5m) Long.: 91° 26' 05."599 (150.7m)

Adjusted

~~100000000~~

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.

[illegible]

Areas contoured by various personnel
(Show name within area)
(II) (III)

DATA RECORD

Field Inspection by (II): J.S. Howell

Date: March 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):

March - April, 1948: Air Photo Compilation

Projection and Grids ruled by (IV): W.E.W. (Washington Office)

Date: 2-24-48

Projection and Grids checked by (IV): T.L.J. " "

Date: 2-24-48

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

Date: 12-22-48

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

Date: 12-22-48

Radial Plot ~~to Stereoscopic~~~~by (III):~~ M.M. Slavney

Date: Mar. 29, 1949

Planimetry

Date: —

Stereoscopic Instrument compilation (III): Inapplicable

Contours

Date: —

Manuscript delineated by (III): J.F. Armstrong

Date: Dec. 14, 1949

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

Date: Jan. 1950

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

Inapplicable

Date: —

Camera (kind or source) (III): U.S. Coast and Geodetic Survey 9-lens 8 1/4" focal length

Number	Date	Time	Scale	Stage of Tide
21939	March 13, 1948	11:44	1: 20,000	0.2
21940	" 13, 1948	11:45	"	0.2
21941	" 13, 1948	11:46	"	0.2
21984	" 13, 1948	13:20	"	0.3
21989	" 13, 1948	14:03	"	0.4
21935	Dec 7, 1947	11:22	"	
21936	" "	11:23	"	

Tide (III)

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

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 47.5

Shoreline (More than 200 meters to opposite shore) (III): 21

Shoreline (Less than 200 meters to opposite shore) (III): 95

Control Leveling - Miles (II): 0

Number of Triangulation Stations searched for (II): 8

Recovered: 5

Identified: 5

Number of BMs searched for (II): 0

Recovered: 0

Identified: 0

Number of Recoverable Photo Stations established (III): 2

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

Remarks:

Diurnal

Ratio of Ranges	Mean Range	Range
1.0	1.0	1.4
1.1	1.1	1.9

Date: May 2, 1951

Date:

Date: March 19, 1952

Date: 3-27-52

Summary T-9024

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 $7\frac{1}{2}$ 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, 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 T-9023, T-9024, T-9025, T-9026, and T-9027 and is bound with T-9027.

COMPILATION REPORT T-9024

PHOTOGRAMMETRIC PLOT REPORT

The Photogrammetric Plot Report will be submitted with quadrangle T-9018.

31. DELINEATION

The graphic method of compilation was used.

Some difficulty was encountered in transferring photo points from the field prints which were flown in February of 1947 to the Office prints which were flown in March of 1948. Due to the time interval there were changes in the appearance of the shoreline. The points were cut in by the radial plot section by transferring control to the field prints and by utilizing those office prints on which identification was possible, thus resulting in very good intersections.

Shoreline surveys T-8895 and T-8896 cover a small part of this quadrangle but were not used in the delineation. The radial plots differ by as much as 30 meters. *"The adjoining areas of T-8895 and T-8896 while not adequately controlled are believed to be of sufficient accuracy for smaller scale charts." Descr. Report T-8894.* The field inspection was adequate and no difficulty was encountered in the interpretation of the photographs or in the delineation of the manuscripts.

32. CONTROL

Identification of secondary control was good and was sufficient as to density and placement for the establishment of detail points.

33. SUPPLEMENTARY DATA

None used.

34. CONTOURS AND DRAINAGE

Drainage was clear and sharp on the photographs and no difficulty was encountered in its delineation. Contours are inapplicable to this project.

35. SHORELINE AND ALONG SHORE DETAILS

Shoreline inspection was adequate.

No low-water line is shown due to very little change of tide in this area.

36. OFFSHORE DETAILS

Numerous offshore details exist. These consist mainly of piling and gave considerable trouble in plotting from sextant fixes. Those in doubt are noted on the discrepancy overlay for clarification by the field editor.

37. LANDMARKS AND AIDS

No unusual methods of compilation employed - There are no aids to navigation.

38. CONTROL FOR FUTURE SURVEYS

Two cards, Form 524 are submitted. A list of recoverable topographic stations has been prepared, and is included in Item 49.

39. JUNCTIONS

T-9025 to the east: in agreement
T-9023 to the west: in agreement
T-9019 to the north: in agreement
Water to the south - Atchafalaya Bay

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with topographic quadrangles Belle Isle, La. Mississippi River Commission, scale, 1: 62,500 edition of 1941 reprinted in 1943. In general both quadrangles are in agreement, but extensive shoreline changes have occurred due to erosion.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart No. 1276, scale 1: 80,000 published March 1939 and bearing a print date of May 23, 1949. Many man-made and natural changes have taken place since the publication of the chart. Extensive shoreline changes have occurred in Atchafalaya Bay and Wax Lake. The small islet immediately east of Grass Island shown on the chart has disappeared. Many drainage ditches and canals have been dug changing the planimetry of the chart considerably.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

A number of piling and other obstructions have been located by the field inspector in or near navigable water. Where the sextant fix or a pile plots with all angles holding it has been shown on the manuscript with a small circle and the word "pile" labeled alongside.

The following is a list of obstructions and their approximate positions.

A. Piling and weed guards at entrance to LEOPARD BAYOU in WAX LAKE.
~~(See discrepancy overlay for piling whose sextant fixes would not hold.)~~

B. A string of piling in WAX LAKE near what is known as THE SPILLWAY.

C. Two stakes have been located at the mouth of NEW PASS where it joins ATCHAFALAYA BAY at approximate latitude $29^{\circ} 32.4'$, longitude $91^{\circ} 25.9'$ (The sextant fix for these stakes would not hold and was referred to the field editor). Out-field editor reports nothing in the area now.

D. A pier with oil tank at approximate latitude $29^{\circ} 30.5'$, longitude $91^{\circ} 24'$.

E. A crib at approximate latitude $29^{\circ} 30.3'$, longitude $91^{\circ} 24'$.

F. A pier and shack at approximate latitude $29^{\circ} 30.2'$, longitude $91^{\circ} 24.2'$.

ITEMS TO BE CARRIED FORWARD

A feature charted as stumps on nautical chart 1276 at approximate latitude $29^{\circ} 32.6'$, longitude $91^{\circ} 27.1'$ was not recovered by the field inspector. If feature is above MHW it should be located by the field editor; if below, by the hydrographer. Not found during field check.

Approved and Forwarded:

John F. Armstrong
John F. Armstrong,
Cartographic Draftsman

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 Names Section of the Washington Office.

- | | |
|-----------------------------------|---------------------------------|
| • <u>Andrews Bayou</u> | • <u>Hog Bayou Lake</u> |
| • <u>Atchafalaya Bay</u> | • <u>Horseshoe Bayou</u> |
| • <u>Bayou Blue</u> | • <u>Jacks Bayou</u> |
| • <u>Bayou Chaffe</u> | • <u>Julian Bayou</u> |
| • <u>Beach Bayou</u> | • <u>Leopard Bayou</u> |
| • <u>Bear Fork Bayou</u> | • <u>Leopard Point</u> |
| • <u>Belle Isle</u> | • <u>Little Beach Bayou</u> |
| • <u>Belle Isle Lake</u> | • <u>Little Doctors Bayou</u> |
| • <u>Belle Isle Point</u> | • <u>Little Lacassine Bayou</u> |
| • <u>Big Bull Bayou</u> | • <u>Little Wax Bayou</u> |
| • <u>Big Lacassine Bayou</u> | • <u>Mud Lake Bayou</u> |
| • <u>Big Wax Bayou</u> | • <u>Myrtle Bayou</u> |
| • <u>Black Bayou</u> | • <u>Negro Hammock</u> |
| • <u>Camp Bayou (do not show)</u> | • <u>New Pass</u> |
| • <u>Campbell Bayou</u> | • <u>Poverty Bayou</u> |
| • <u>Chaffe Pass</u> | • <u>Sixmile Bayou</u> |
| • <u>Coalboat Pass</u> | • <u>St. Mary Parish</u> |
| • <u>Fivemile Oaks</u> | • <u>The Spillway</u> |
| • <u>Goat Island</u> | • <u>Towhead Bayou</u> |
| • <u>Goat Pass</u> | • <u>Towhead Lake</u> |
| • <u>Grass Island</u> | • <u>Wax Lake</u> |
| • <u>Hog Bayou</u> | • <u>Wax Lake Pass</u> |

Names approved

4-25-51

a. j. w.

49. NOTES FOR THE HYDROGRAPHER

Two cards, Form 524, are being submitted for the following topographic stations:

BILL 1948

EDDY, 1948

Submerged piling ^{has} ~~have~~ been reported ^{along the western side} ~~at~~ THE SPILLWAY in WAX LAKE at latitude $29^{\circ} 36'$ to $29^{\circ} 37'$, [^] the exact limits have not been furnished but the approximate area is that occupied by the legend.

50 PHOTOGRAMMETRIC OFFICE REVIEW

T- 9024

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. Photogrammetric control stations~~9. Plotting of sextant fixes R.J.P. 10. Photogrammetric plot report J.G. 11. Detail points J.G.

C?

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. ~~22. Man-made structures~~ ~~23. Structures~~ ~~24. Cultural features~~ ~~25. Other physical features~~ 26. Other physical features J.G.

CULTURAL FEATURES

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

BOUNDARIES

~~31. Boundary lines~~ ~~32. Other boundaries~~

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 William A. Rasure
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:

M-2623-12

TIDE COMPUTATION

PROJECT NO. Ph-21(47)T- 9024

Time and date of exposure 13:20 Mar. 13, 1948 Reference station Galveston, Texas Mean range 1.1

Date of field inspection March 1948 Subordinate station Eugene I. Atchafalaya Bay Ratio of ranges 1.1

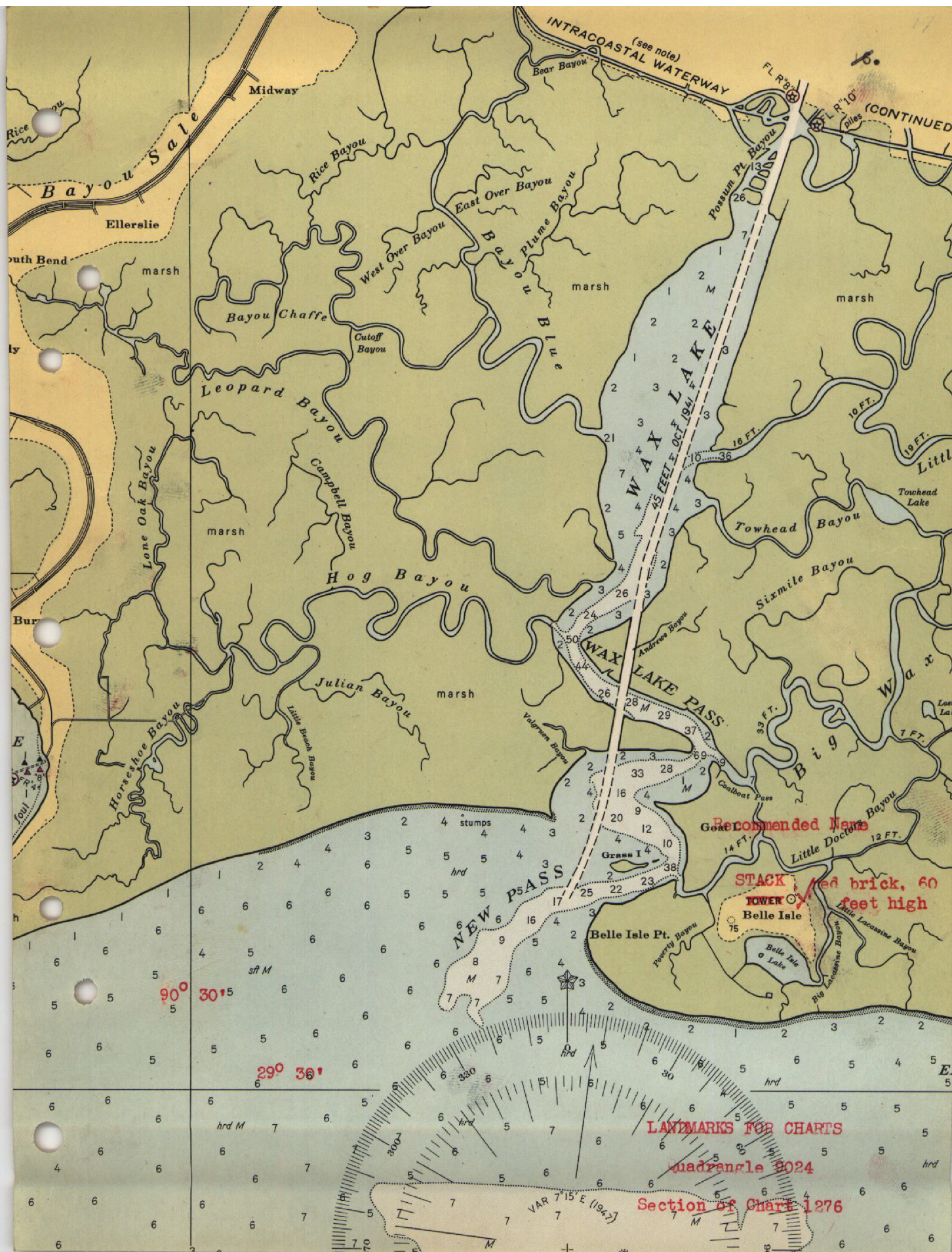
Subord Sta.	Time		Height feet	Height x Ratio of ranges	Time h. m.	Time h. m.
	h.	m.				
High tide	17	18	0.6	0.66	17	43
Low tide	10	05	0.1	0.11	0	25
Duration of rise or fall	713		0.55		17	18
High tide at Ref. Sta.			Corrected time at Subordinate station		10 05	
Time difference			Corrected time at Subordinate station		2 05	
Low tide at Ref. Sta.			Corrected time at Subordinate station		10 05	
Time difference			Corrected time at Subordinate station		2 05	
Corrected time at Subordinate station			Corrected time at Subordinate station		10 05	

Subord Sta.	Time		Height feet	Height x Ratio of ranges	Time h. m.	Time h. m.
	h.	m.				
Time XXXX L. T.	10	05	Ht. XXXX L. T.	0.1	Feature bares	21984
Required time	13	20	Tabular correction	0.2	Stage of tide above MLW	
Interval	3	15	Stage of tide above MLW	0.3	Feature above MLW	
Time H. T. or XXXX	17	18	Ht. H. T. or XXXX	0.6	Feature bares	21989
Required time	14	03	Tabular correction	0.2	Stage of tide above MLW	
Interval	3	15	Stage of tide above MLW	0.4	Feature above MLW	
Time XXXX or L. T.	10	05	XXXX or L. T.	0.1	Feature bares	21939
Required time	11	44	Tabular correction	0.1	Stage of tide above MLW	
Interval	139		Stage of tide above MLW	0.2	Feature above MLW	
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares	
Required time			Tabular correction		Stage of tide above MLW	
Interval			Stage of tide above MLW		Feature above MLW	
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares	
Required time			Tabular correction		Stage of tide above MLW	
Interval			Stage of tide above MLW		Feature above MLW	
Time H. T. or L. T.			Ht. H. T. or L. T.		Feature bares	
Required time			Tabular correction		Stage of tide above MLW	
Interval			Stage of tide above MLW		Feature above MLW	

M-2617-12

Computed by R. R. WagnerChecked by J. F. Armstrong

5



TO BE CHARTED
~~ALSO BE EXCLUDED~~

STRIKE OUT ONE

NON-EUCLIDEAN LANDMARKS FOR CHARTS

Morgan City, Louisiana

26 Apr 11

1987

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

The positions given have been checked after listing by

John F. Armstrong, Jr.

Tampa Photogrammetric Office

Charles W. Clark	Chief of Party.
1890	1890
1891	1891
1892	1892
1893	1893
1894	1894
1895	1895
1896	1896
1897	1897
1898	1898
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1902	1902
1903	1903
1904	1904
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2038	2038
2039	2039

[illegible]

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-9024
Planimetric Map

May 2, 1951

62. Comparison with Registered Topographic Surveys

T-632	1:20,000	1856
T-639	1: 9,660	1855
T-6300	1:20,000	1934
T-6325a	1:20,000	1935
T-8895	1:10,000	1949
T-8896	1:10,000	1949

This planimetric survey supersedes the above listed surveys for nautical chart purposes.

63. Comparison with Maps of Other Agencies

Belle Isle, La., Quadrangle, U.S.E., 1:62,500 1943

See Item 46 of the Compilation Report

64. Comparison with Contemporary Hydrographic Surveys

None contemporary

65. Comparison with Nautical Charts

Chart	1050	1:175,000	April 1950
	1116	1:458,596	May 1950
	1276	1:80,000	October 1950

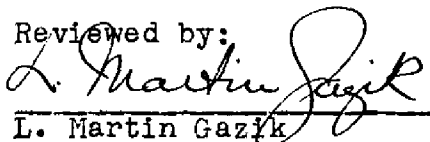
See Item 47 of the Compilation Report

66. A field check was made of some of the features shown on this manuscript.

67. Adequacy of Manuscript

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

Reviewed by:


L. Martin Gazik

Approved:

S. V. Lippitt 1/25/53
Chief, Review Section
Div. Photogrammetry

H. B. Edmonson
Chief, Nautical Chart Branch
6/5

O. J. Reading
Chief, Div. Photogrammetry

Carl O. Heston
Chief, Div. of Coastal Surveys
2.14.

1953
RUB