

9666

Original

Diag. Cht. Nos. 1268-2 & 1270.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHY

Field No. Ph-89 Office No. T-9666

LOCALITY

State LOUISIANA

General locality GULF COAST

Locality LAKE BORGNE S/E

1955

CHIEF OF PARTY

P. L. Bernstein, Chief of Field Party

H. C. Applegquist, Tampa Photo Office

LIBRARY & ARCHIVES

APR 15 1958

DATE

COMM-DC 61300

9666

DATA RECORD

T-9666

Project No. (II): Ph-89

Quadrangle Name (IV):

LENA LAGOON

Field Office (II): New Orleans, La.

Chief of Party: P.L. Bernstein

Photogrammetric Office (III): Tampa Florida

Officer-in-Charge: H. C. Applequist

Instructions dated (II) (III): 11 April 1952

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): 5-7-56 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 4 Mar 1958

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): Saint Malo, 1934 ✓

Lat.: 29°52'40." 787(1255.9 m) ✓

Long.: 89°35'48." 314(1296.5 m) ✓

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State:

Zone:

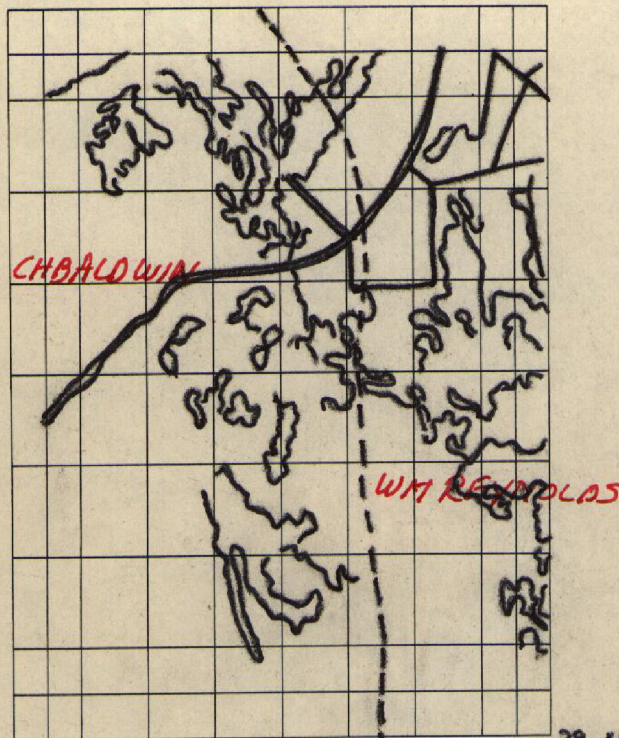
Y=

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.

29 52.5
87-37.5



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

29-45

87-80

DATA RECORD

Field Inspection by (II): C.H. Baldwin
W.M. Reynolds

Date: June-Sept. 1952

Planetable contouring by (II): Same as above

Date: June, Sept. 1952

Completion Surveys by (II):

SEE REVIEW REPORT

Date:

Mean High Water Location (III) (State date and method of location): Sept. 1952
Air photo compilation

Projection and Grids ruled by (IV): Joan Thuma (W.O.)

Date: 23 June 1953

Projection and Grids checked by (IV): H. D. Wolfe (W.O.)

Date: 24 June 1953

Control plotted by (III): I. I. Saperstein

Date: 17 Aug. 1953 ✓

Control checked by (III): R. J. Pate

Date: 17 Aug. 1953 ✓

Radial Plot of Stereoscopic

Date: 14 Oct. 1954 ✓

Control extension by (III): M. M. Slavney

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Inapplicable

Date:

Contours

Manuscript delineated by (III): W. W. Dawsey

Date: Sept. 1955

Photogrammetric Office Review by (III): R. R. Wagner

Date: Oct. 1955

Elevations on Manuscript
checked by (II) (III): R. R. Wagner

Date: Oct. 1955

Camera (kind or source) (III): C&GS Nine-lens; 8 1/4" focal length

Number	Date	Time	Scale	Stage of Tide
35326-		11:49-		
35328 incl	27 Feb. 1952	11:51 incl	1:20,000	± 0.3
35348	"	12:24	"	"
35350	"	12:26	"	"
35351	"	12:27	"	"
39346-		9:35-		
39348 incl	28 Feb. 1952	9:37 incl	"	± 1.2

Tide (III)
Predicted Tide

Reference Station: Pensacola Fla.
Subordinate Station: Long Point, Lake Borgne, La.
Subordinate Station:

diurnal

Ratio of Ranges	Mean Range	Spring Range
		1.3
0.8	--	1.0

Washington Office Review by (IV):

A.K. Heywood

Date: 10/9/57

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 61
Shoreline (More than 200 meters to opposite shore) (III): 68
~~Shoreline (Less than 200 meters to opposite shore) (III):~~
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): 3
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Recovered: 2
Recovered:

Identified: 2
Identified:

Remarks:

No control stations are within the limits of this quadrangle.

SUMMARY TO ACCOMPANY TOPOGRAPHIC MAP

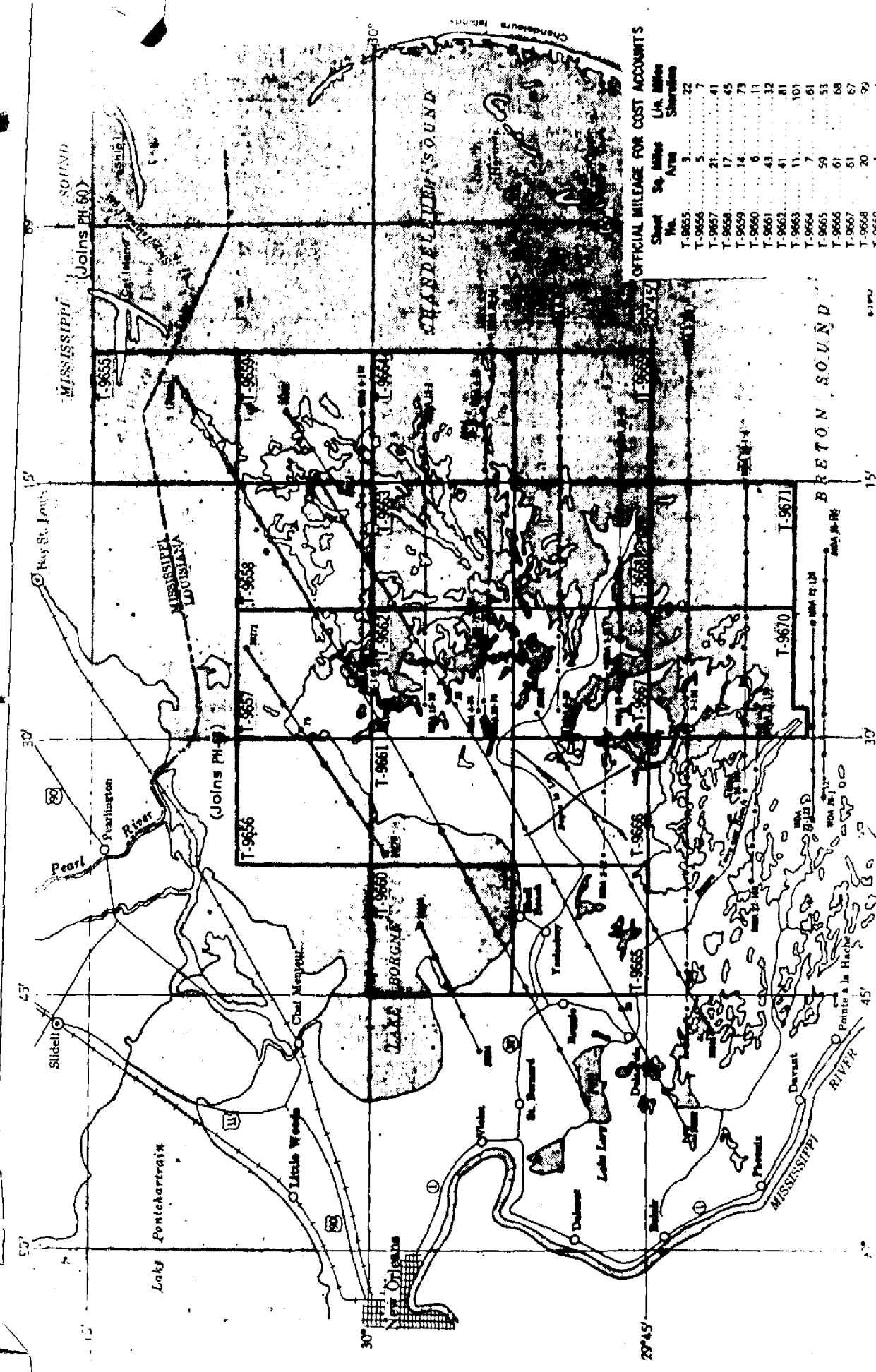
This topographic map is one of 17 similar maps of Project PH-89. It covers a portion of Louisiana from Mississippi Sound south to Breton Sound.

Project PH-89 is a graphic compilation project. Field work in advance of compilation included the establishment of some additional control, complete field inspection, the delineation of 5 foot contours directly on the nine-lens photographs by planetable methods, and the investigation of geographic names and political boundaries.

Since almost all the terrain was marsh, only 3 of the maps on PH-89 were field edited. They are T-9660, T-9665, T-9667. All were compiled at the scale of 1:20,000, using nine-lens photographs taken in 1952. Newer 67 camera photographs taken in 1955 were used to revise delineation where necessary. There were few such cases.

With the addition of hydrographic data these maps will be forwarded to the Geological Survey for publication as standard 7½ minute quadrangles.

Items registered under each map number will include a Cronar film positive and a descriptive report.



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Sq. Miles Area	Li. Miles Shoreline
T-9655	3	22
T-9656	5	7
T-9657	21	41
T-9658	17	45
T-9659	14	73
T-9660	6	11
T-9661	43	32
T-9662	41	81
T-9663	11	101
T-9664	7	61
T-9665	59	53
T-9666	61	68
T-9667	61	67
T-9668	20	92
T-9669	1	4
T-9670	28	73
T-9671	2	14
TOTALS	400	852

Not to scale
Photographs

2. AREAL FIELD INSPECTION

The area is practically all marsh with numerous ponds and bayous. Bayou la Loutre crosses the northern part of the quadrangle. Bayou St. Malo is a navigable waterway that connects Bayou la Loutre with Lake Borgne. There are a number of dredged canals in the northwest ^{east} part of the quadrangle. Of these, Bakers Canal is an important waterway.

All these canals, Bayou la Loutre and the dredged portion of Bayou St. Malo, have some spoil along the banks.

The photographs are clear and should offer little trouble in interpretation.

The field inspection is believed to be complete.

Field work was done on nine-lens photographs 35326-28, and 35348-51.

3. HORIZONTAL CONTROL

Station RUSSO 1934 has been reported as lost on Form 526.

4. VERTICAL CONTROL

There are no bench marks in the quadrangle.

See "Special Report, Vertical Control and Contouring, Project Ph-89".

5. CONTOURS AND DRAINAGE

See "Special Report, Vertical Control and Contouring, Project Ph-89".

Spot elevations in this quadrangle are based on Shell Beach, Hopedale, and Bakers Canal tide staffs.

Drainage is all tidal and shows clearly on the photographs.

6. WOODLAND COVER

There are heavy growths of trees on the natural levees along Bayou la Loutre. Beyond the natural levees there are some tree covered swamps. These have been differentiated on the photographs by the field inspector. The only other vegetation is marsh grass.

7. SHORELINE AND ALONGSHORE FEATURES

All shoreline is apparent except where there is spoil along dredged waterways. The mean low water line is contiguous with the mean high water line. There are no piers or other shoreline structures in the quadrangle.

8. OFFSHORE FEATURES

None.

9. LANDMARKS AND AIDS

None.

10. BOUNDARIES, MONUMENTS, AND LINES

There are no political boundaries in the quadrangle. For a discussion of section corners, see Field Inspection Report for Quadrangle T-9665().

11. OTHER CONTROL

None.

12. OTHER INTERIOR FEATURES

There are a few trappers cabins. These are occupied only during the trapping season.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project Ph-89", to be forwarded at a later date.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

"Special Report, Vertical Control and Contouring, Project Ph-89", to be forwarded at a later date.

"Special Report, Geographic Names, Project Ph-89", to be forwarded at a later date.

Letter of Transmittal No. 89-11, Forms 567, forwarded to Washington Office 8 September 1952.

Letter of Transmittal No. 89-12, Forms 567, forwarded to Tampa Photogrammetric Office 8 September 1952.

Letter of Transmittal No. 89-17, Data, Quadrangles T-9665((), T-9666(), T-9667(), T-9668(), and T-9669(), forwarded to Washington Office 17 September 1952.

Submitted
8 September 1952

Charles H. Baldwin
Charles H. Baldwin
Cartographic Survey Aid

Approved and Forwarded
17 September 1952

Percy L. Bernstein
Percy L. Bernstein
Chief of Party

COMPILATION REPORT T-9666PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-9655

31. DELINEATION

The graphic compilation method was used. The photographs were of relatively poor scale, necessitating the application of numerous detail points.

The field inspection seemed complete.

32. CONTROL

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

* One Carrying contour on the southeast side of Bayou la Loutre represents all the contours within the limits of this quadrangle. Numerous spot elevations were applied. The drainage was applied as viewed, and in accordance with the field inspectors notes.

* OTHERS WERE ADDED DURING REVIEW.
AIA

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline was shown as depicted by the field inspectors notes. For the MLW line, see Item 7. No piers were indicated.

36. OFFSHORE FEATURES

None.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Satisfactory junctions were made with T-9661 on the north, T-9667 on the east, and T-9665 on the west. No contemporary surveys to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. PUBLIC LAND LINES

No section corners were recovered. Details could not be held to control plat.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with Geological Survey 15 minute Quadrangle "SHELL BEACH, LA." scale 1:62,500, surveyed in 1939. The two are in fair agreement.

47. COMPARISON WITH NAUTICAL CHARTS

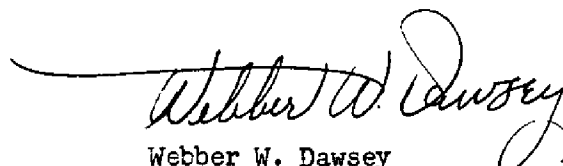
Comparison has been made with C&GS Nautical Chart No. 1271, scale 1:80,000, published April 1939; corrected to 24 Sept. 1954. The map listed under Item 46 appears to be the source of topography and the same differences are apparent.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY


None

ITEMS TO BE CARRIED FORWARD

None


Webber W. Dawsey
Carto Photo Aid.

Approved and Forwarded


H. C. Applequist
Chief of Party

48. GEOGRAPHIC NAME LIST

BAKERS CANAL
BAYOU ALPHONSE
BAYOU BERNARD
BAYOU GUYAGO
BAYOU LA LOUTRE
BAYOU MUSCELINI
BAYOU PISANA
BAYOU POINTE-EN-POINTE
BAYOU ST. MALO
BERNARD LAGOON
BLIND PISANA BAYOU

ENGINEERS CANAL

GREENS BAYOU

HALFMOON PASS
HALFMOON PASS BAY

JAHNCKES DITCH

LAGOON BRADY
LAGOON GIRAUD
LAKE BORGNE
LAKE COQUILLE
LAKE JEAN LOUIS ROBIN
LENA LAGOON
LITTLE HALFMOON BAY
LONG LAGOON
LONGVIEW
LOUISIANA

MAGNOLIA LAGOON

PISANA LAGOON
PORTMAN LAGOON

STATE HIGHWAY C-1492
ST. BERNARD PARISH

49. NOTES FOR THE HYDROGRAPHER

None.

TIDE COMPUTATION

PROJECT NO. Ph-89 T. 9664

Time and date of exposure 11:51 27 Feb 1952 Reference station Pensacola *Diurnal* 1.3
 Date of field inspection Sept. 1952 Subordinate station Long Point, Lake Borgne Mean range
 Ratio of ranges 0.8

	Time		Height feet	Height x Ratio of ranges	Time		Time h. m.
	h.	m.			h.	m.	
High tide	13	59	0.5	0.4	12	24	7 40
Low tide	9	15	0.4	0.3	7	35	7 13 5
Duration of rise or fall	4	44		0.1	13	59	9 15
							Low tide at Ref. Sta.
							Time difference
							Corrected time at Subordinate station

	h. m.		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	feet	Feature bares Stage of tide above MLW Feature above MLW	feet	Photo. No.
	h.	m.					
Time H. T. or L. T. Required time Interval	9	15	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.3	Feature bares Stage of tide above MLW Feature above MLW		35328
Time H. T. or L. T. Required time Interval	11	51	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.0	Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval	2	36	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.3	Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

Computed by WLD Checked by 115

T-9666.

Geographic Names.

Bayou Alphonse

Bakers Canal

Blind Pisana Bayou

Bernard Lagoon

Lake Borgne

Lagoon Brady

Lake Coquille

Engineers Canal

Lagoon Giraud

Greens Bayou

Bayou Givago

Halfmoon Pass

Halfmoon Pass Bay

Jahnckes Ditch

Lake Jean Louis Robin

Lena Lagoon

Little Halfmoon Bay

Long Lagoon

Longview (locality, not a settlement)

Louisiana

Bayou la Loutre

Magnolia Lagoon

Bayou Miscelini

Bayou Pisana

Pisana Lagoon

Portman Lagoon

Bayou Pointe-en-Pointe

St Bernard Parish.

Bayou St Malo

Title: Lake Borgne is so large that it scarcely seems appropriate to use it for a single sheet.

Names approved 9-19-56

L. Heck

rt.

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9666

1. Projection and grids P.P.W. 2. Title P.P.W. 3. Manuscript numbers P.P.W. 4. Manuscript size P.P.W.
 unclassified

1a. Classification label

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy XX 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XX 7. Photo hydro stations XX 8. Bench marks XX
 9. Plotting of sextant fixes XX 10. Photogrammetric plot report W.A.R. 11. Detail points P.P.W.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline RRW 13. Low-water line XX 14. Rocks, shoals, etc. RRW 15. Bridges XX 16. Aids to navigation XX 17. Landmarks XX 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 RRW 23. Stereoscopic instrument contours XX 24. Contours in general RRW 25. Spot elevations RRW 26. Other physical features RRW

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines XX 32. Public land lines RRW

MISCELLANEOUS

33. Geographic names RRW 34. Junctions RRW 35. Legibility of the manuscript RRW 36. Discrepancy overlay XX 37. Descriptive Report RRW 38. Field inspection photographs RRW 39. Forms RRW
 40. Robert R. Wagner Jesse A. Miles
 Robert R. Wagner, Reviewer Jesse A. Miles, Supervisor

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:

REVIEW REPORT T-9666
TOPOGRAPHIC MAP
14 October 1957

61. General Statement

See summary

62. Comparison with registered topographic surveys

5314	1:20,000	1934
5315	1:20,000	1934

Manuscript T-9666 supercedes the above surveys in common areas as source material for charts.

63. Comparison with Maps of Other Agencies

USGS Shell Beach 1:62,500 1939

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

Chart 1271 1:80,000 2nd Ed. 1939 Revised 7/22/57

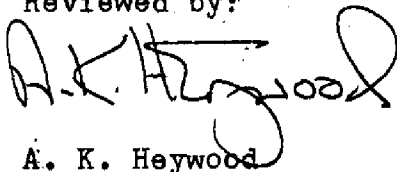
66. Adequacy of Results and Future Surveys

This manuscript complies with all instructions and meets the National Standards of Map Accuracy.

No field edit was accomplished. Sparse culture and almost complete marsh did not warrant additional check.

The manuscript was compared with USC&GS 1955 "W" camera photography. One new canal was added extending to the south off Bayou La Loutre.

Reviewed by:



A. K. Heywood

Approved:

L. C. Rande
Chief, Review Branch
Photogrammetry Div.

Max Skidmore
Chief, Nautical Chart Branch
Charts Division

W. L. Swanson
Chief, Photogrammetry Div.
25 March 1958 *WLS*

W. L. Swanson
Chief, Division of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T.9666

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.