

9670

Diag. Cht. No. 1270.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-89 Office No. T-9670

LOCALITY

State Louisiana

General locality Breton Sound

Locality Lake Athanasio

1945 52-55

CHIEF OF PARTY

P.L.Bernstein, Chief of Field Party
H.C.Applequist, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE May 23, 1958

9670

DATA RECORD

T-9670

Project No. (II): Ph-89
6089

Quadrangle Name (IV): LAKE ATHANASIO

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 Method

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): FIDDLER, 1934

Lat.: 29°40'39."413 (1213.5 m) Long.: 89°25'50."708 (1363.4 m)

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State:

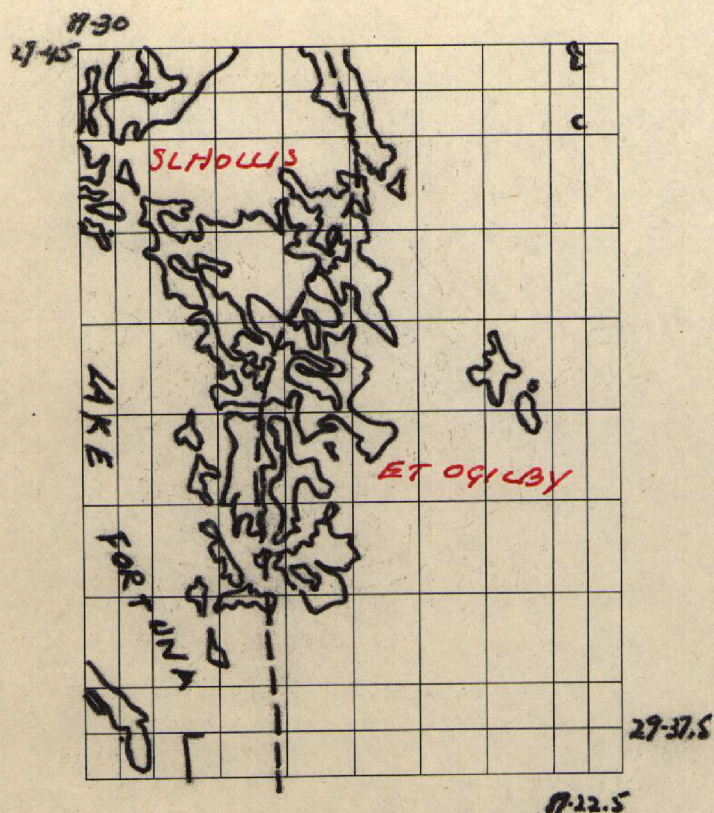
Zone:

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.



Areas contoured by various personnel

(Show name within area)

(II) (III)

DATA RECORD

Field Inspection by (II): S.L. Hollis, Jr.
E.T. Ogilby
C.H. Baldwin

Date: June-Aug. 1952

Planetable contouring by (II): S.L. Hollis, Jr.
E.T. Ogilby

~~Date: June, Aug. 1952~~

Completion Surveys by (II):

*No contours on MAP
ARCH
SEE REVIEW REPORT ITEM 66*

Date:

Mean High Water Location (III) (State date and method of location): August 1952
Air Photo Compilation

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

Date: 29 June 1953

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

Date: 1 July 1953

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

Date: 19 August 1953

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

Date: 19 August 1953

Radial Plot ~~or Stereoscopic~~

Date: 26 Oct. 1954

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

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Date:

Inapplicable

Date:

Manuscript delineated by (III): R. Dossett

Date: July 1955

Photogrammetric Office Review by (III): I. I. Saperstein

Date: 9 Aug. 1955

Elevations on Manuscript
checked by (I) (III): I. I. Saperstein

Date: 9 August 1955

Camera (kind or source) (III): C. & G. S. 9-lens, $8\frac{1}{4}$ " focal length.

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
			Time		
39397	28 Sept. 1952		10:26	1:20,000	1.7
39398	"		10:27	"	"
39400	"		10:27	"	"

Tide (III)
Predicted Tide

Reference Station: Pensacola
Subordinate Station: Bay St. Louis
Subordinate Station:

Ratio of Ranges	Mean Range	^{Diurnal} Spring Range
--	--	1.3
1.2	--	1.6

Washington Office Review by (IV):

A. K. HEYWOOD

Date:

OCT 21, 1957

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 28

Shoreline (More than 200 meters to opposite shore) (III): 73

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

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): 15 (4)* Recovered: 5

Identified: 5 (4)*

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:

()* Third-Order stations established

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 6W 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.

2. AREAL FIELD INSPECTION

The land area is entirely marsh broken into irregular shapes by innumerable small bayous and lakes. There are occasional small sections of shell beach.

Field inspection is believed adequate and complete.

Quality of the photographs was considered poor and identifiable points were difficult to select.

Field work was done on single-lens photographs MDA-3-149, MDA-3-151, MDA -22-123, MDA-22-124, MDA-22-126, MDA-22-161, MDA-26-160, and MDA-26-161, all (1 of 2); and MDA-2-25, MDA-3-149, MDA-3-150, MDA-3-152, MDA-26-62, MDA-26-63, MDA 26-160, MDA-26-162, and MDA-26-163, all (2 of 2).

3. HORIZONTAL CONTROL

The following third-order triangulation stations were established during field work: FIDDLER 2 1952, GRACE PT. 2 1952, GARDNER PT. 2 1952, LAKE ELOI LT. 1 1952, and POINT MOZAMBIQUE LIGHT 1952. The following stations have been reported lost on Form 526: SPAR 1934, COONS NEST 1869, LOVE 1934, FIDDLER 1869, GRACE PT. 1869, BAMBOO 1869, GARDNERS PT. 1869, BENTLEY 1869, TERRAPIN 1869, and BLACK 1869.

4. VERTICAL CONTROL

The tide staff at Bayou la Loutre was used to establish mean sea level datum in this 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".

6. to 8. WOODLAND COVER, SHORELINE AND ALONGSHORE FEATURES, and OFFSHORE FEATURES, respectively:

See Field Inspection Report, Quadrangle T-9659().

9. LANDMARKS AND AIDS

There are no landmarks in the area. All fixed aids to navigation adequately covered by Form 567.

10. BOUNDARIES, MONUMENTS, AND LINES

The Plaquemines-St. Bernard Parish boundary falls within this quadrangle. See "Special Report, Boundaries, Project Ph-60(49)".

11. OTHER CONTROL

No other control was established.

12. OTHER INTERIOR FEATURES

See Field Inspection Report, Quadrangle T-9659().

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project Ph-89".

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

See Field Inspection Report, Quadrangle T-9659().

Letter of Transmittal No. 89-16, Data, Quadrangles T-9670() and T-9671(), forwarded to Washington Office 16 September 1952.

Submitted
8 September 1952

Steven L. Hollis, Jr.
Steven L. Hollis, Jr.
Lieut. (j.g.), U.S.C. & G.S.

Approved & Forwarded
16 September 1952

Percy L. Bernstein

Percy L. Bernstein
Chief of Party

COMPILATION REPORT - T-9670PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-9655.

31. DELINEATION

Compiled graphically.

The field inspection was adequate.

The photographs were of poor scale, photo 39400 being the best. The manuscript was compiled from the 9-lens photos, which were very clear. The field inspection on single-lens shows obvious errors in outlined shoreline due to probable mud shelves interpreted as shoreline by the field men.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Reference Item five (5).

35. SHORELINE AND ALONGSHORE DETAILS

No alongshore structures were apparent on the photographs or indicated by field inspection; M.H.W. has been shown as indicated by the field inspection notes.

36. OFFSHORE DETAILS

None indicated by field inspector.

Reference Field Inspection Report, T-9659.

37. LANDMARKS AND AIDS

Reference Item nine (9).

38. CONTROL FOR FUTURE SURVEYS

Reference Item eleven (11).

39. JUNCTIONS

A satisfactory junction has been secured with T-9667 on the north, and T-9671 on the east. There are no contemporary surveys on the west and south.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. PUBLIC LAND LINES

Since no section corners were recovered, and due to radical differences in detail since the GLO surveys, no attempt was made to show section lines.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with the U.S.G.S. Quadrangle "LAKE ATHANASIO" scale 1:31,680, completed in 1935. Except for shoreline recessions due to erosion no outstanding discrepancies were noted. A comparison was also made with C. & G.S. Air Photo Compilation T-5324, scale 1:20,000, compiled in 1933. The same discrepancy noted above is applicable.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with C. & G.S. Nautical Chart 1270, scale 1:80,000, published in June 1947 (2nd edition), last correction date 18 Oct. 1954. No discrepancies noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD:

None

Rudolph Ddssett
Rudolph Ddssett
Carto Photo Aid

Approved and Forwarded

H. C. Applequist
H. C. Applequist

T-9670.

Geographic Names.

Lake Athanasio

Black Bay
Breton Sound

Canal Pecal
Coon Nest Island

Deadman Island

Pt Eloï

Pass Fernandez
Fiddler Point
Lake Fortuna
Pt Fortuna
Bayou Frenepiquant

Gardner Island
Pt Gardner
Grace Point
Grassy Island

Louisiana

Lake Machias
Mozambique Point
Milatto Bayou

Flaquemines Parish
Bayou Pointe-en-Pointe

Raccoon Island

St Bernard Parish
St Helena Bay
Seven Dollar Bay
Seven Dollar Bayou

Bayou Terre aux Boeufs

* Title: Note that it is not uniform with the other maps of this series.

Names approved 9-19-56

L. Heck.
L. H.

* CHANGED TO AGREE
AKH
5

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T-9670

1. Projection and grids IIS 2. Title IIS 3. Manuscript numbers IIS 4. Manuscript size IIS5. Classification label unclassified

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines IIS 32. Public land lines XX

MISCELLANEOUS

33. Geographic names IIS 34. Junctions IIS 35. Legibility of the manuscript IIS 36. Discrepancy overlay IIS 37. Descriptive Report IIS 38. Field inspection photographs IIS 39. Forms IIS40. Irving J. Saperstein William A. Basore
I.I. Saperstein Reviewer William A. Basore 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

49. NOTES FOR THE HYDROGRAPHER

No topographic or photo-hydro stations were established.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

Photogrammetric Review Branch

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

~~TO BE CHARTED~~
~~TO BE DELETED~~

STRIKE OUT ONE

Tanna Photographic Office 1 August 1955

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

The positions given have been checked after listing by Rudolph Noegett

H. C. Applquist

Chief of Party.

[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 individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

TIDE COMPUTATION

PROJECT NO. Ph-89 T-9670

Time and date of exposure 10:22, 28 Sept 1962 Reference station Pensacola Mean range 4.4
 Date of field inspection August 1962 Subordinate station Bay St. Louis Ratio of ranges 1.2

	Time		Height feet	Height x Ratio of ranges	High tide at Ref. Sta. Time difference Corrected time at Subordinate station	Time		Low tide at Ref. Sta. Time difference Corrected time at Subordinate station
	h.	m.				h.	m.	
High tide	5	21	1.8	2.2	5	21	17	13
Low tide	17	13	0.1	0.1	17	13	17	10
Duration of rise or fall	11	52		2.1	6	31	18	23

	h.	m.	feet	feet	Photo. No.
Time H. T. or L. T. Required time Interval	6	31	2.2	Feature bares Stage of tide above MLW Feature above MLW	39348
Time H. T. or L. T. Required time Interval	10	27	0.45	Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval	3	56	1.87	Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval				Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval				Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval				Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval				Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval				Feature bares Stage of tide above MLW Feature above MLW	

Computed by R. G. Smith Checked by 115

Review Report T-9670, T-9671
Topographic Map
21 October 1957

61. General Statement

See Summary

62. Comparison with Registered Topographic Surveys

1099	1:20,000	1870
5324	1:20,000	1934

Manuscripts T-9670, T-9671 supercede the above surveys in common areas as source material for chart construction.

63. Comparison with Maps of Other Agencies

USCG	Lake Athanasio	1:31,680	1935
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64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

Chart 1270	1:80,000	2nd Ed. 1947	12/17/56
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66. Adequacy of Results and Future Surveys

These manuscripts comply with instructions and meet The National Standards of Map Accuracy.

No Field Edit was scheduled and none was needed. The area is covered with marsh.

The compilation was checked using USC&GS 1955 W camera photography. Small changes were made.

Reviewed by

A. K. Heywood
A. K. Heywood

Approved

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

Max B. Keltts
Chief, Nautical Chart Branch
Charts Division

J. B. Buss
Chief, Photogrammetry Div.

J. B. Buss
Chief, Coastal Surveys Div.