

9870

Diag. Cht. No. 1275-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. 6090 Office No. T-9870

LOCALITY

State Louisiana

General locality Gulf Coast

Locality Grand Bayou Du Large

1945-52

CHIEF OF PARTY

E.H.Kirsch, Chief of Field Party

H.C.Applequist, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE June 10, 1958

B-1670-1 (1)

0286

DESCRIPTIVE REPORT - DATA RECORD

T - 9870

Project No. (II): 6090

Quadrangle Name (IV):

Field Office (II): Houma, La.

Chief of Party: E. H. Kirsch

Photogrammetric Office (III): Tampa Photo Office

Officer-in-Charge: H. C. Applequist

Instructions dated (II) (III): 5 September 1952

Copy filed in Division of

(Supplement 1) 25 September 1952

Photogrammetry (IV)

(Supplement 2) 30 September 1952

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III):

MAR 19 1956

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 5-8-58

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): ST. MARTIN 1928

Lat.: $29^{\circ}10'24.367''$ (750.2m)

Long.: $90^{\circ}59'25.800''$ (697.1m)

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.

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): B. F. Lampton Jr.
C. H. Baldwin

Date: Jan. 19, 1953
April 1953

Planetable contouring by (II): C. H. Baldwin

Date: April 1953

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): April 1953
Air Photo Compilation

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

Date: 3 Sept. 1953

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

Date: 8 Sept. 1953

Control plotted by (III): R. R. Wagner

Date: 18 Oct. 1954

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

Date: 18 Oct. 1954

Radial Plot or Stereoscopic

Date: 22 June 1955

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

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Inapplicable

Date:

Date:

Manuscript delineated by (III): R. R. Wagner

Date: 16 Sept. 1955

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

Date: 26 Jan. 1956

Elevations on Manuscript
checked by (I) (III): J. A. Giles

Date: 20 Jan. 1956

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C. & G.S. 9-lens Camera 8 1/4" focal length

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
39431	28 Sept. 1952	11:22	1:20,000	± 0.6
39441	"	11:37	"	"
39442	"	11:38	"	"
39531	29 Sept. 1952	10:06	"	± 1.3
39532	"	10:07	"	"
39534	"	10:13	"	"
39535	"	10:14	"	"

Single-lens photography:

56-L-466 to 473 incl. 10-23-56 1:20,000 (infra-red)
56-O-833 " 840 " " "
56-W-4309 " 4312 " 10-24-56 1:30,000
56-W-4322 " 4325 " " "
56-W-4375 " 4379 " " "

Tide (III)

From predicted tides

Reference Station: Pensacola, Fla.

Subordinate Station: Raccoon Point, Caillou Bay

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
Diurnal		1.3
1.3 "		1.7

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 36

Shoreline (More than 200 meters to opposite shore) (III): 52

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

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): 6

Recovered: 3

Identified: 3

Number of BMs searched for (II): 3

Recovered: 3

Identified: 1

Number of Recoverable Photo Stations established (III): 1

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

Remarks:

SUMMARY
TO ACCOMPANY TOPOGRAPHIC MAP T-9870

The subject topographic survey is one of "Planimetric and Topographic Mapping Project PH-90 (6090)". It covers a group of islands lying between Caillou Bay and Caillou Lake in Louisiana on the Coast of the Gulf of Mexico.

These islands are low and marshy with a maximum ground elevation of only 3 feet and subject to change due to erosion and storms and hurricanes. Cultural features are confined to groups of cabins on a few shrimp platforms and in the shallow waters occasional wells in the development of oil.

T-9870 was compiled graphically at the Tampa District Office in 1955 from nine-lens photography of 1952 and field inspection of 1953. In 1957 readily apparent changes on 1956 single-lens photography were applied to the original manuscript, which was subsequently scribed on plastic at the same field office.

During the final Washington Office Review hydrographic information will be added according to G. S. specifications and released to the U. S. Geological for their publication as a standard 7½ minute quadrangle at the scale of 1:24,000. This will replace a previous publication by that agency at 1:31680 of 1935.

The following will be registered and filed in the Bureau Archives:

A "CRONAR" film positive at manuscript scale (1:20,000)
The Descriptive Report
A cloth-backed lithographic print in colors after final printing by G. S.

2. AREAL FIELD INSPECTION

The area is all marsh except for the spoil along the canals and a few scattered shell ridges along the north shore of Caillou Bay.

The Texas Company Dog Lake Oil Field is on the eastern limits of this quadrangle and their Bay Junop Field is on the western limits. Only a portion of these fields fall within the limits of the quadrangle.

Field inspection was performed on nine-lens field photographs 39431, 39530 through 39532, 39534 and 39535.

As photography was of a fairly recent date little difficulty was encountered in their interpretation. Field inspection is believed to be complete as of 10 April 1953 with no field work being deliberately left for completion surveys. However, constant changes are taking place due to expansion of old oil and gas fields and discovery of new ones throughout the area. The field editor should be especially alert for new oil and gas wells and new canals dredged as a means of access to drilling sites.

3. HORIZONTAL CONTROL

All existing horizontal control was searched for and identified if recovered. No supplemental horizontal was established.

The following are Coast and Geodetic Survey triangulation stations reported lost: ILETTES 1928, LITE 1928, and CAILLOU BAYOU ENT.BN.

4. VERTICAL CONTROL

The following are Coast and Geodetic Survey Tidal Bench Marks which were recovered: CAILLOU LAKE TBM 1; CAILLOU LAKE TBM 2; and CAILLOU LAKE TBM 3. No supplemental vertical control was established.

5. CONTOURS AND DRAINAGE

Elevations in the area were determined by erecting a tide staff in Caillou Lake. This staff was tied by levels to CAILLOU LAKE TIDAL BENCH MARKS 1, 2, and 3. All elevations were determined by hand level from water level. The time of hand level readings were recorded and then reduced in reference to the tide staff readings at that time.

All drainage is clearly visible on the photographs.

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6. WOODLAND COVER

There is no woodland cover in this area.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line along the bayou is easily interpreted but has been indicated by symbol at intervals to aid the compiler. The shoreline in the remainder of the area, which is all marsh, is the edge of marsh or apparent shoreline. It, too, has been indicated at intervals by symbols.

The mean low water line is synonymous with the mean high water line.

All alongshore features are adequately covered by the photographs and shoreline inspection notes.

8. OFFSHORE FEATURES

Adequately covered by photographs and shoreline inspection notes.

9. LANDMARKS AND AIDS

Adequately covered by photographs and field inspection notes.

10. BOUNDARIES, MONUMENTS AND LINES

There are no political boundaries in the area.

See "Special Report, Public Land Lines, Project Ph-90".

11. OTHER CONTROL

None was established.

12. OTHER INTERIOR FEATURES

There are no roads in the area. The only buildings are trappers' cabins scattered throughout the marsh area which are landmark features in themselves due to the lack of other cultural features although they are not of substantial construction. They have been indicated by the notation "cabins" on the photographs. It is recommended that they be mapped as Class 1 buildings.

There are no airports or landing fields in the area.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project Ph-90."

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14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Letter of Transmittal No. 90-5, Forms 567, to be forwarded to Washington Office at a later date.

Letter of Transmittal No. 90-6, Forms 567, to be forwarded to Photogrammetric Office at a later date.

Letter of Transmittal No. 90-7, "Special Report, Public Land Lines, Project Ph-90", forwarded to Washington Office 29 April 1953.

Letter of Transmittal, Data, Public Land Lines, forwarded to Washington Office 28 January 1953.

Letter of Transmittal No. 90-8, "Special Report, Geographic Names, Project Ph-90", to be forwarded to Washington Office at a later date.

Letter of Transmittal No. 90-20, Data, Quadrangle T-9870(), forwarded to Washington Office

MAY 5 1953

Submitted
5 May 1953

B. Frank Lampton, Jr.

B. Frank Lampton, Jr.
Cartographic Survey Aid

Approved & Forwarded

MAY 6 1953

E. H. Kirsch

E. H. Kirsch
Chief of Party

SCALE FACTOR

1 FT. = 3048006 METER	DATE	CHECKED BY:	COMM-DC-57043
COMPUTED BY: J. Steinberg	9/18/53	B. Wilson	9/29/53
			DATE

COMPILATION REPORT T-9870PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-9672.

31. DELINEATION

The graphic method was used.
The photographs were of poor scale.

32. CONTROL

Reference Photogrammetric Plot Report

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

No difficulties were encountered.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.
There are no low-water or shoal lines shown.

36. OFFSHORE DETAILS

No difficulties were encountered.

37. LANDMARKS AND AIDS

No statement.

38. CONTROL FOR FUTURE SURVEYS

There is one (1) recoverable topographic station being submitted on Form 524. It is listed under Item 49.

39. JUNCTIONS

Junctions have been made with T-9860 to the north, T-9869 to the west, T-9878 to the south and T-9871 to the east.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. PUBLIC LAND LINES.

Public Land Lines could not be applied for lack of recovered corners and cultural features. All land area is marsh except for spoil along canals. Since the original survey was done in 1838 the cultural features, shown on the General Land Office Plat have undergone a great change and could not be used as control.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with Geological Survey quadrangle, GRAND BAYOU DU LARGE, LA. scale 1:31,680, field completion date 1935, and C & G S Planimetric Map T-5290, BAYOU GRAND CAILLOU, scale 1:20,000. The manuscript and maps are in fair agreement.

47. COMPARISON WITH NAUTICAL CHARTS.


Comparison was made with C & G S Chart 1275, scale 1:80,000. published May 1938 (1st Edition) corrected to 18 August 1952. The two are in fair agreement. The maps listed under Item 46 appear to be the source of topography and the same differences are to be found.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY


None.

ITEMS TO BE CARRIED FORWARD

None


Robert R. Wagner
Carto Photo Aid

Approved and Forwarded


H. C. Applequist
Chief of Party

T-9870.

Geographic Names.

Bay Voisin ✓✓

Bayou de l'Ouest ✓✓✓

Bayou Grand Caillou ✓✓

Bayou Voisin ✓✓

Caillou Bay ✓

Caillou Lake ✓ (recent BGN decision, although Sister Lake reported as current local usage)

Dog Lake Oil and Gas Field ✓ (from 1955 Terrebonne Parish Highway Map)

Fish Bayou ✓✓ (retain this name, although Redfish Bayou reported as local usage. Another Redfish Bayou nearby)

Grand Bayou du Large ✓✓

Jack Stout Bay ✓✓

King Lake ✓✓

Louisiana ✓✓

Mibe Pass ✓✓

Moncleuse Bay ✓✓ (BGN decision in this form)

Redfish Bayou ✓✓

Taylor's Bayou ✓✓

Terrebonne Parish ✓

Turtle Bayou ✓✓

Names approved 12-4-56.

L. Heck.

✓ Giles (Names on rough M.S.,
" " " stuck up sheet.

49. NOTES FOR THE HYDROGRAPHER

There is one (1) topographic station that will be of value to the hydrographer.

GRAND GAILLOU LIGHT, 1953.

PHOTOGRAMMETRIC OFFICE REVIEW

50.

T- 9870

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines XX 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 XX 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G.
 40. Jesse A. Giles *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:

REVIEW REPORT OF
TOPOGRAPHIC MAP T-9870
November 1957

61. GENERAL STATEMENT

This topographic map was originally compiled from 1952 photographs and 1953 field inspection. Later photography (1956 single-lens photography - see additional listing on page 4) was used to apply extensive changes to the original manuscript - without benefit of field inspection or field edit.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-1691	1:20,000	1887
T-1692	1:20,000	1886
T-5290	1:20,000	1934

H-442, a hydrographic survey with extensive planimetry at a scale of 1:200,000 of 1853, was used in this comparison also.

The major differences that exist are recently dredged canals as a result of oil well drillings. There are other shoreline changes throughout, which do not differ considerably from the 1934 survey.

T-9870 is to supersede above-listed registered surveys for nautical charting purposes for common areas.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

GRAND BAYOU DU LARGE, LA., 1:31680, 1935 U. S. Geological Survey. The land areas consist of low marshy islands, which are subject to continuous change. Although disagreements are not as great as elsewhere in this project, the Geological Survey publication of 1935 of this same area is more or less obsolete.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There are no contemporary hydrographic surveys of this area.

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65. COMPARISON WITH NAUTICAL CHARTS

1275	1:80,000	Revised to 57	9/16
1050	1:175,000	Revised to 57	2/25

There is good agreement between subject topographic survey and nautical chart 1275. Chart number 1050 has not received the changes made available by T-9870; however the differences are not deemed very important for a chart of this scale and do not warrant immediate attention.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

The 1956 photography used in the revision of the original compilation is without field inspection or field edit - as stated elsewhere in this report. This lack of guidance and verification is not normal procedure for a topographic survey. However, a thorough examination of the photography (which includes one flight strip of infra-red photographs) preceded in the application of appropriate changes. The map is believed to be within the requirements of adequacy and accuracy.

Reviewed by

Josef J. Streffler
Josef J. Streffler

Approved

L. C. Landy
Chief, Review and Drafting
Section, Photogrammetry
Division

Max B. Kitts
Chief, Nautical Charts
Branch, Charts Division

Act. Bull
Chief, Photogrammetry Division

J. B. Leavelle
Chief, Coastal Surveys