

9388

Diag. Cht. No. 1270.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-60 (49) B Office No. T-9388

LOCALITY

State Louisiana

General locality Chandeleur Sound

Locality Freemason Island

194/50-51

CHIEF OF PARTY

P.L.Bernstein, Chief of Field Party

A.L.Wardwell, Tampa Photo. Office.

LIBRARY & ARCHIVES

DATE July 24, 1957

B-1870-1 (1)

9388

DATA RECORD

T-9388

Project No. (II): **Ph-60(49)B**

Quadrangle Name (IV):

Field Office (II): **Gulfport, Mississippi**

Chief of Party: **Percy L. Bernstein**

Photogrammetric Office (III): **Tampa, Florida**

Officer-in-Charge: **Arthur L. Wardwell**

Instructions dated (II) (III): **8 August 1950**

Copy filed in Division of
Photogrammetry (IV)

Office Files

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): **MAR 28 1952**

Date reported to Nautical Chart Branch (IV): **APR 3 - 1952**

Applied to Chart No.

Date:

Date registered (IV): **3-24-57**

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N. A. 1927**

Vertical Datum (III): **MSL**

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): **CHANDELEUR LIGHTHOUSE, 1910**

Lat.: **30° 02' 52".272 (1609.5m.)** Long.: **88° 52' 18".293 (490.1m.)**

Adjusted
Unadjusted

Plane Coordinates (IV):

State: **La.**

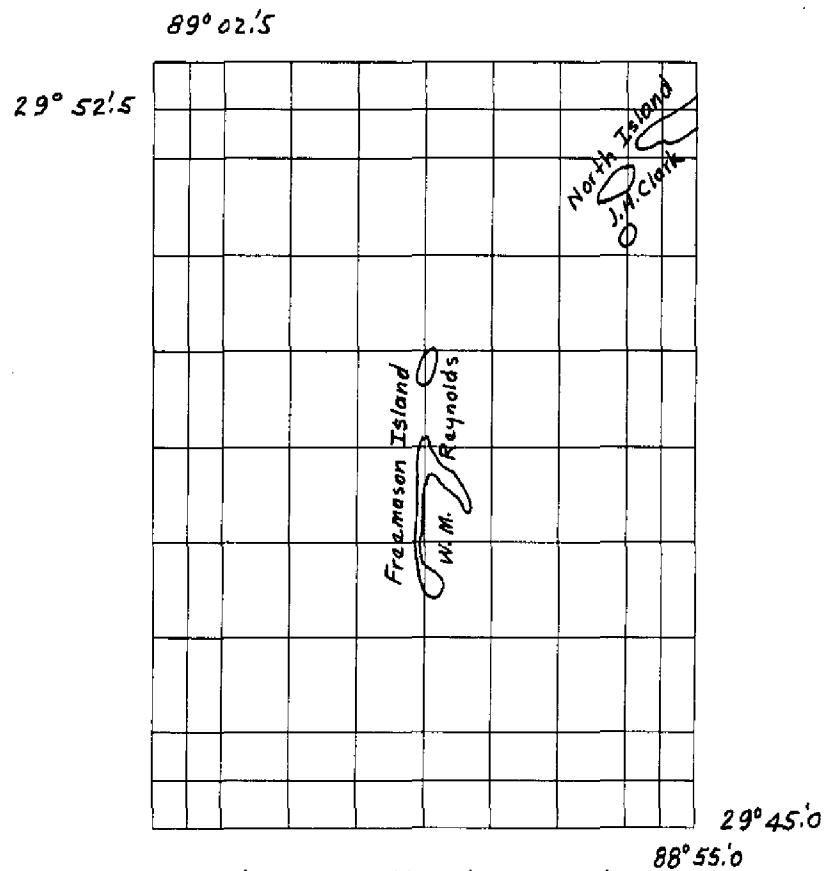
Zone: **South**

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
J. H. Clark

Date: Dec 1950 to
Apr 1951

Planetable contouring by (II): W. M. Reynolds
J. H. Clark

Date: Dec 1950 to
Apr 1951

Completion Surveys by (II): None

Date:

Mean High Water Location (III) (State date and method of location): Air Photo Compilation - 8/6
9¹ May 1950

Projection and Grids ruled by (IV): T. L. J. (W.O.)

Date: 24 Feb. 1951

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

Date: 26 Feb. 1951

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

Date: 29 May 1951

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

Date: 7 June 1951

Radial Plot or Stereoscopic

Date:

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

13 Aug. 1951

Stereoscopic Instrument compilation (III):
Planimetry
Contours Inapplicable

Date:

Date:

Manuscript delineated by (III): R. E. Smith

Date: 14 Dec. 1951

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

Date: 3 March 1952

Elevations on Manuscript

Date:

checked by (III): J. A. Giles

14 Dec. 1951

Camera (kind or source) (III): U. S. C. & G. S. Nine-lens Camera, Focal Length 8.24 inches

Number	Date	Time	Scale	Stage of Tide
25884	9 May 1950	10:36	1:20,000	0.5
26054	15 May 1950	16:22	1:20,000	0.2
26212	16 May 1950	11:27	1:20,000	1.2
26213	16 May 1950	11:27	1:20,000	1.2

Tide (III)

Reference Station: PENSACOLA
Subordinate Station: CHANDELEUR LIGHT
Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
0.9	-	1.2

Washington Office Review by (IV): *Everett H. Ramey*

Date: *8 Feb 1955*

Final Drafting by (IV): *John H. Frazier*

Date: *Nov 28, 1955*

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 1
Shoreline (More than 200 meters to opposite shore) (III): 14
Shoreline (Less than 200 meters to opposite shore) (III): 5
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): 2
Number of BMs searched for (II): None
Number of Recoverable Photo Stations established (III): 3
Number of Temporary Photo Hydro Stations established (III): 0

Recovered: 0 Identified: 0
Recovered: Identified:

Remarks:

Three recoverable topographic stations were established by triangulation.
They are of less than 3rd order accuracy.

Summary to Accompany Topographic Map

This topographic map is one of eleven similar maps of Part B of Project Ph-60. Part B covers the islands in Mississippi, Chandeleur and Breton Sounds in Louisiana and Mississippi.

Project Ph-60 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 photographs by planetable methods, and the investigation of geographic names and political boundaries.

None of the maps of Part B of Project Ph-60 were field edited. All were compiled at a scale of 1:20,000, using nine-lens photographs taken in 1950. With the addition of hydrographic data, these maps will be forwarded to the Geological Survey for publication as standard 7-1/2-minute topographic maps.

Items registered under each map number will include a descriptive report, cloth-backed copies of the manuscript and the published map.

C. R. NAR

2. AREAL FIELD INSPECTION

The land area is all of Freemason Island and the most westerly part of North Island. This land area is all marsh and mangrove swamp. The only elevation above 2 feet is along the shell deposits along the edge of the marsh.

The water area is largely shallow and has numerous shoals. The shoal running southwest from the westerly end of North Island bares with a prevailing northerly wind for approximately 1 mile southwest of the end of the island. The shoal along the southeast side of Freemason Island is also bare under the same conditions.

The photography was of recent date and no difficulty was encountered in their interpretation. The tones vary from white, in the sand and shell areas, to black in the marsh and mangrove areas. It is believed the compiler will have no difficulty interpreting the tones, with the aid of the field inspection notes.

Field inspection is believed complete and no items were left for field edit. Field inspection was performed on photographs 26054 and 26213.

3. HORIZONTAL CONTROL

The following stations were reported lost: FREEMASON 2 1922 and OLD HARBOR 2 1921.

To control the plot the following stations were established and identified: ACHE 1950, BABY 1950, and ZERO 1950. ^{**}See "Special Report, Supplemental Control, Project Ph-60(49), Breton and Chandeleur Sounds", * for the methods used in establishing the above stations.

** Filed under project data in Div. of Photogrammetry.*

Horizontal control is identified on photographs 25884 and 26212.

*** Less than third-order accuracy. ^{50%}*

4. VERTICAL CONTROL

No vertical control of any kind existed. To provide control for the contours the elevation of the water was computed from the predicted tide tables. No other vertical control of any kind was established by the field party.

5. CONTOURS AND DRAINAGE

Contouring was done directly on nine-lens photographs and consisted solely of spot elevations. There are no stable contours in the vicinity and the only elevations above 2 feet are on extreme peaks of shifting sand and shell. These peaks are very small and could not be shown without much exaggeration.

There is no drainage except tidal drainage in marsh and mangrove.

6. WOODLAND COVER

Woodland cover consists solely of mangrove.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line around most of Freemason Island is the offshore edge of the shell deposit along the edge of the marsh. The southeasterly side of the island is apparent shoreline.

The westerly point of North Island is the same as above. It is believed that sufficient notes have been made on the photographs to clarify any difficulty the compiler might have.

There are no docks, wharves, piers, etc. within the area.

There are no submarine cables within the area.

8. OFFSHORE FEATURES

The only offshore feature is Old Harbor Island. The island no longer exists except as a shell bar. The bar bares in cases of extreme low water only and, according to local information, the bar shifts in position depending mainly on the direction of the wind. The bar when visited was only 8 feet wide and 190 feet long. A three-point fix was taken on the bar to correctly place it on the manuscript.

9. LANDMARKS AND AIDS

There are no landmarks for nautical charts, or any aids to navigation.

There are no aeronautical aids.

10. BOUNDARIES, MONUMENTS, AND LINES

No boundary monuments were recovered by the field party.

See "Special Report, Boundaries, Project Ph-60(49)", to be forwarded at a later date. *(Filed under project data, Div. of Photogrammetry)*

11. OTHER CONTROL

The following stations were located by theodolite as recoverable topographic stations: ACHE 1950, BABY 1950, and ZERO 1950.

See "Special Report, Supplemental Control, Project Ph-60(49)B, Breton and Chandeleur Islands", forwarded to the Washington Office 16 April 1951.

12. OTHER INTERIOR FEATURES

There are no roads, buildings, bridges, or airports.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project Ph-60(49)", to be forwarded at a later date. *(Filed in Geographic Names Section, Div. of Charts)*

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

"Special Report, Supplemental Control, Project Ph-60(49)B, Breton and Chandeleur Sounds", forwarded to the Washington Office 16 April 1951.

"Special Report, Boundaries, Project Ph-60(49)", to be forwarded at a later date.

"Special Report, Geographic Names, Project Ph-60(49)", to be forwarded at a later date.

Data, Quadrangle T-9388, letter of transmittal 60-10, forwarded to the Tampa Photogrammetric Office 19 April 1951.

Submitted
16 April 1951

William M. Reynolds
William M. Reynolds
Cartographic Survey Aid

Approved
19 April 1951

Percy L. Bernstein
Percy L. Bernstein
Chief of Party

PHOTOGRAMMETRIC PLOT REPORT

This report is filed as part of the Descriptive Report
for T-9383 and covers maps T-9383 thru T-9393.

COMPILATION REPORT T-9388

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-9383.

31. DELINEATION.

Compiled by graphic method. No unusual method of compilation was employed. The field inspection was adequate.

32. CONTROL.

A sufficient number of well placed secondary control points were established by the radial plot.

33. SUPPLEMENTAL DATA.

None.

See §14

34. CONTOURS AND DRAINAGE.

See Item 5.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was adequate. For low-water line information, refer to Item 7.

36. OFFSHORE DETAILS.

Reference Item 8.

37. LANDMARKS AND AIDS.

Reference Item 9.

38. CONTROL FOR FUTURE SURVEYS.

Three recoverable topographic stations are being submitted on photostatic copies of Form 524 with this report. These have been listed and included under Item 49.

39. JUNCTIONS.

No contemporary survey on the north.
Survey T-9390 on the south in agreement.
No contemporary survey on the west.
Survey T-9389 on the east in agreement.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

See §66

41. PUBLIC LAND LINES.

No section corners were recovered. It was impossible to plot section lines from General Land Office plats.

(These islands not shown on any GLO plats filed in Wash. Office) ENK

46. COMPARISON WITH EXISTING MAPS.

None.

See §62

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison has been made with U. S. C. & G. S. Nautical Chart No. 1270, scale 1:80,000, published June 1947 (second edition) and corrected to 19 March 1951. They are in fair agreement. Reference Item 8.

See §65

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Rexford E. Smith, Jr.
Rexford E. Smith, Jr., Carto Photo Aid.

APPROVED AND FORWARDED:

Arthur L. Wardwell
Arthur L. Wardwell, Chief of Party.

TIDE COMPUTATION

PROJECT NO. Ph-60(49) T. 9388

Time and date of exposure 11:27-5:16-50 Reference station PENSACOLA Mean range
 Date of field inspection February 1951 Subordinate station CHANDELEUR LIGHT Ratio of ranges 0.9

	Time		Height feet	Height x Ratio of ranges	Time h. m.	Time h. m.
	h.	m.				
High tide	9:36		1.4	1.26	9:36	
Low tide	20:55		-0.2	-0.18	-0:30	
Duration of rise or fall	11:19			1:44	9:06	
						20:25

	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. <i>9:06</i>	9:06			1.3			26213
Required time	11:27			0.1			
Interval	2:21			1.2			
Time H. T. or L. T.							
Required time							
Interval							
Time H. T. or L. T.							
Required time							
Interval							
Time H. T. or L. T.							
Required time							
Interval							
Time H. T. or L. T.							
Required time							
Interval							

TIDE COMPUTATION

PROJECT NO. Ph-60(49) T-9388

Time and date of exposure 16:22 5-15-50 Reference station PENSACOLA Mean range 5
 Date of field inspection April 1951 Subordinate station CHANDELEUR LIGHT Ratio of ranges 0.9

	Time		Height feet	Height x Ratio of ranges		Time	
	h.	m.				h.	m.
High tide	9:11		1.3	1.17	High tide at Ref. Sta.	9:11	
Low tide	20:11		-0.1	-0.09	Time difference	-0.30	
Duration of rise or fall	11:00			1:26	Corrected time at Subordinate station	8:41	

	h. m.		feet	Photo. No.
	h.	m.		
Time <u>H. T. or L. T.</u>	19:41		-0.1	26054
Required time	16:22		0.3	
Interval	3:19		0.2	
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				

TIDE COMPUTATION

PROJECT NO. Ph. 60(49)T- 9388

Time and date of exposure 10:36 5-9-50 Reference station PENSACOLA Mean range
 Date of field inspection APRIL 1951 Subordinate station CHANDELEUR LIGHT Ratio of ranges 0.9

	Time		Height feet	Height x Ratio of ranges	Time h. m.
	h.	m.			
High tide	16	31	1.0	0.9	16:31
Low tide	3	05	0.0	0.0	03:05
Duration of rise or fall	13	26		0.9	16:01

	Time		Height feet	Height x Ratio of ranges	Time h. m.	Photo. No.
	h.	m.				
Time H. T. or L. T. <u>4:44 A</u>	16	01	Ht. H. T. or L. T. <u>4:44 A</u>			25884
Required time interval	10	36	Tabular correction	0.9		
	5	35	Stage of tide above MLW	0.4		
Time H. T. or L. T.			Stage of tide above MLW	0.5		
Required time interval			Ht. H. T. or L. T.			
			Tabular correction			
			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time interval			Tabular correction			
			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time interval			Tabular correction			
			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time interval			Tabular correction			
			Stage of tide above MLW			

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 9388

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

CULTURAL FEATURES

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

BOUNDARIES

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

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 *Jesse A. Giles* William A. Ragure
 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:

49. NOTES FOR THE HYDROGRAPHER

The following topographic stations may be useful for the hydrographer:

ACHE, 1950

BABY, 1950

ZERO, 1950

OLD HARBOR ISLAND has disappeared, leaving only a shifting shell bar. A three-point fix was taken on this bar by the field inspector and the position obtained has been shown on the map manuscript by a dashed, three and one-half millimeter circle, labeled "OLD HARBOR ISLAND SHOAL".

48. GEOGRAPHIC NAME LIST.· CHANDELEUR SOUND*Breton National Wildlife Refuge
(approved on T-9387) ^{SLR}*· FREEMASON ISLAND· LOUISIANA· NORTH ISLANDS· *OLD HARBOR ISLAND SHOAL· POINT HOPE· POINT NEPTUNE· POLICE JURY WARD 7 (Not mapped) ^{SLR}· ST BERNARD PARISH*Names underlined in
red are approved.*

*Named by Tampa Office

*8-21-52
L. Heck*

Review Report
Topographic Map T-9388
8 February 1955

62. Comparison with Registered Topographic Surveys:

T-548	1:20,000	1855
T-549	"	"
T-3985	"	1922

Shoreline has changed several hundred meters since these prior surveys. For the area it encompasses, T-9388 is to supersede these prior surveys for nautical charting purposes.

63. Comparison with Maps of Other Agencies: None.

64. Comparison with Contemporary Hydrographic Surveys: None.

65. Comparison with Nautical Charts:

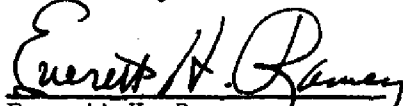
1270	1:80,000	1947, corrected to 54-10/18
------	----------	-----------------------------

Map T-9388 has been applied, in its entirety, to this chart. No changes affecting this chart were made during this review.


66. Adequacy of Results and Future Surveys:


This map meets the National Standards of Map Accuracy and complies with Bureau requirements.


Reviewed by:



Everett H. Ramey

APPROVED:


Chief, Review Section
Photogrammetry Division


Chief, Photogrammetry Division


Chief, Nautical Chart Branch
Charts Division


Chief, Coastal Surveys Division

19 July '57

History of Hydrographic Information for T-9388 through T-9392

Hydrography was added to the map manuscript in accordance with the Photogrammetry Division General Specifications of 18 May 1949.

Depth curves and soundings are in feet at Mean Lower Low Water datum and originate with the following C&GS Nautical Chart:

<u>No.</u>	<u>Scale</u>	<u>Corrected to</u>
1270	1:80,000	11-28-55

Hydrography was compiled by Bernard J. Colner (T-9388 and T-9389 on 15 May 1956, and T-9390 through T-9392 on 17 May 1956), and verified by O. Svendsen.