

9390

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(119)B Office No. T-9390

LOCALITY

State Louisiana

General locality Chandeleur Sound

Locality Curlew Island

19450-51

CHIEF OF PARTY

P.L.Bernstein, Chief of Field Party  
J.E.Waugh, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE July 18, 1957

B-1870-1 (1)

9390

# DATA RECORD

T-9390

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: **J. E. Waugh**

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): **JUL 29 1952** Date reported to Nautical Chart Branch (IV): **AUG 20 1952**

Applied to Chart No.

Date:

Date registered (IV): **3-20-57**

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): **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.

All contours by  
B. F. Lampton, Jr.

Areas contoured by various personnel  
(Show name within area)  
(ii) (iii)



# DATA RECORD

Field Inspection by (II): B. F. Lampton, Jr.  
W. M. Reynolds

Date: March 1951  
Jan 1951

Planetable contouring by (II): B. F. Lampton, Jr.

Date: March 1951

Completion Surveys by (II): *None*

Date:

Mean High Water Location (III) (State date and method of location):

9 May 1952  
Air Photo Compilation

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: 31 May 1951

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

Date: 8 June 1951

Radial Plot of ~~Stereoscopic~~

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

Date: 4 Apr. 1941

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Inapplicable

Contours

Date:

Manuscript delineated by (III): C. J. Downing

Date: 17 March 1952

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

Date: 16 April 1952

Elevations on Manuscript

checked by (M) (III): J. A. Giles

Date: 12 April 1952



Camera (kind or source) (III): USC&GS Nine-lens camera 8.25" focal length

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
25869	9 May 1950	10:19	1:20,000	0.5
25870	"	10:20	"	"
25871	"	10:21	"	"
25872	"	10:21	"	"
25873	"	10:22	"	"

Tide (III)

Reference Station: PENSACOLA, FLORIDA  
Subordinate Station: CHANDELEUR LIGHTHOUSE  
Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
		1.3
0.9		1.2

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

Date: *16 Feb 1955*

Final Drafting by (IV): *Melvin Charity*

Date: *Dec 2, 1955*

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 3  
Shoreline (More than 200 meters to opposite shore) (III): 4  
Shoreline (Less than 200 meters to opposite shore) (III):  
Control Leveling - Miles (II): None  
Number of Triangulation Stations searched for (II): 1  
Number of BMs searched for (II): None  
Number of Recoverable Photo Stations established (III): 1  
Number of Temporary Photo Hydro Stations established (III): 0

Recovered: 0 Identified: 0  
Recovered: Identified:

Remarks:

One unmarked traverse station of less than 3rd order accuracy was identified for control of the plot.

Summary to Accompany Topographic Map T-9390

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. RONAR



## 2. AREAL FIELD INSPECTION

The land area consists of a part of the southern end of the Chandeleur Islands, running from northeast to southwest. The land area is a low barrier beach that is often covered by high water and is subject to constant change. Near the east side of the quadrangle the beach is backed by marsh to the northwest. In the remainder of the land area the beach gradually slopes to sand flats and a shoal that extends for some distance to the northwest into Chandeleur Sound.

The field inspection is believed to be complete and adequate.

The photographs are of very good quality; however, since the area is subject to constant change they cannot be relied upon to show the present shape of the island.

The darkest tones on the photographs are marsh; the lightest tones are sand above normal high water. Also dark in tone are the sand flats to the northwest of the island that have elevations near mean low water. These flats were probably above water but still wet at time of photography. They may be distinguished from marsh by their smoother appearance. The shoals are light in tone.

## 3. HORIZONTAL CONTROL

One triangulation station, ROL 1921, was reported lost.

A fourth-order traverse was run to establish topographic stations and horizontal control for the radial plot. One traverse station, GGG, was identified on the photographs.

See item 7 and "Special Report, Supplemental Control, Project Ph-60(49)B, Breton and Chandeleur Sounds" for further information on horizontal control.

*(Report filed under project data, Div. of Photogrammetry)*

## 4. VERTICAL CONTROL

There is no previously established vertical control in the area. Vertical control for contouring was obtained by using Gulf water level corrected to predicted height of tide.

## 5. CONTOURS AND DRAINAGE

There are no contours in the quadrangle. Representative spot elevations have been indicated on the photographs.

There is no definite drainage pattern.

See item 7 for further information.



6. WOODLAND COVER

There is no vegetation that should be indicated on the map.

7. SHORELINE AND ALONGSHORE FEATURES

Near the eastern edge of the quadrangle the shoreline has been indicated on photograph 25872. The mean high water line in this area was located by reference measurements from points of identifiable detail.

The mean high water line in the remainder of the quadrangle is that of a low bare sand bar that is changing constantly and is submerged during periods of strong southeasterly winds. Points of identifiable detail suitable for positive identification as control were impossible to find. As a result, it was necessary to locate this mean high water line by planetable methods.

This planetable traverse originated at station JJJ (See "Special Report, Supplemental Control, Project Ph-60(49)B, Breton and Chandeleur Sounds") and with azimuth to HHH continued southwesterly into quadrangle T-9392( ), locating stations KKK, LLL, and MMM. Station KKK had been previously located as outlined in the Special Report mentioned above, and stations LLL and MMM had been connected, in azimuth only, with KKK and the traverse stations on Grand Gosier Island.

The planetable traverse was run from JJJ to MMM on 8 and 9 March 1951. High tides the following few days prevented immediate closure and on 5 April 1951 it was closed by rerunning from KKK to MMM. The error of closure was too small to justify any adjustment. *See §31*

The above work was done on the back of photograph 25868.

8. OFFSHORE FEATURES

There are no offshore features that require discussion.

9. LANDMARKS AND AIDS

There are no landmarks or aids of any kind.

10. BOUNDARIES, MONUMENTS, AND LINES

No boundary or public land line monuments were recovered. *See §41*

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



11. OTHER CONTROL

One monumented topographic station, BAIL 1950, was established in the quadrangle. Project instructions as to spacing of topographic stations in the remainder of the quadrangle were not adhered to because the land is too unstable for the establishment of permanent marks.

12. OTHER INTERIOR FEATURES

There is no culture in the area. All interior features have been covered by field inspection notes.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project Ph-60(49)", to be forwarded at a later date. *(Report filed in Geographic Names Sect., 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-9390, letter of transmittal 60-8, forwarded to the Tampa Photogrammetric Office 19 April 1951.

Submitted  
17 April 1951

*Harish y. Fitzgerald*  
*Cartographer (Photo.)*

*for*  
B. Frank Lampton, Jr.  
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.



SCALE FACTOR

N.A. 1927 - DATUM  
DISTANCE  
FROM GRID OR PROJECTION LINE  
IN METERS  
FORWARD (BACK)

FACTOR DISTANCE  
FROM GRID OR PROJECTION LINE  
IN METERS

FORWARD (BACK)

(Trav. Sta GGG is an unmarked sta of less than 3rd order accuracy).<sup>etc</sup>

DATE 23 May 1951

M-2388-12

10



11

COMPILATION REPORT T-9390

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-9383.

31. DELINEATION.

Graphic method used. No unusual methods were employed.

The distance between JJJ and KKK,\* from their geographic positions is 1103.0 meters, but the distance scaled from the planetable traverse and survey on the back of Field Print No. 25868 is only 1025 meters. Due to this discrepancy, detail has been delineated from the photographs instead of the planetable survey. For the area not covered by the foregoing traverse, the field data furnished taped distances from topographic and traverse stations to the M. H. W. L. These had to be disregarded because they were insufficient in number for adequate delineation. (See correspondence attached \* This leg in planetable traverse was to Compilation Report T-9391)

32. CONTROL.

Secondary control was satisfactory as to identification, density and placement.

33. SUPPLEMENTAL DATA.

None.

*See § 14*

34. CONTOURS AND DRAINAGE.

Reference Item 5.

35. SHORELINE AND ALONGSHORE DETAILS.

Reference Item 31.

36. OFFSHORE DETAILS.

No statement.



37. LANDMARKS AND AIDS.

None. Reference Item 9.

38. CONTROL FOR FUTURE SURVEYS.

One (1) recoverable topographic station, BAIL, 1950, has been submitted on Form 524 and listed under Item 49.

See §67

39. JUNCTIONS.

Satisfactory junction with T-9391 on the east.  
Satisfactory junction with T-9392 on the south.  
Satisfactory junction with T-9388 on the north.  
No contemporary survey on the west. (Bounded by water)

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

See §66

41. PUBLIC LAND LINES.

No section corners were recovered, therefore no section lines were plotted from General Land Office plats. (GLO plats in Wash. Office do not include these islands) ~~SKR~~

46. COMPARISON WITH EXISTING MAPS.

No maps available for comparison.

See §62

46. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with Chart No. 1270, scale 1:80,000, dated June 1947, corrected to 16 August 1951. The shoreline has undergone extensive changes. CURLEW ISLAND has built up considerably in a northeasterly direction. Several inlets have filled in between the islands. STAKE ISLAND has extended itself approximately a mile in a southwesterly direction.

See §65




ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

  
Charles J. Downing, Carte. Photo. Aid

APPROVED AND FORWARDED:

  
J. E. Waugh, Chief of Party

49. NOTES FOR THE HYDROGRAPHER.

The following recoverable topographic station may be useful to the hydrographer.

BAIL, 1950 \*

The shoreline has undergone extensive changes. CURLEW ISLAND has built up considerably in a northeasterly direction. STAKE ISLAND has extended itself approximately a mile in a southwesterly direction. A shallow area on the west side of the islands has been delineated on the manuscript with the conventional symbol and labeled approximate. The line shown was taken from aerial photographs taken in May 1950.

\* Use station with caution: The position determined by field methods did not check the <sup>approximate</sup> field-identified position determined by photogrammetric methods. <sup>SKR</sup>

## TIDE COMPUTATION

PROJECT NO. PH-60(49)T- 9390

**PENSACOLA, FLORIDA**

**Diurnal**  
**Wetland**

Time and date of exposure **10:21 9 May 1950**

Date of field inspection 5 April 1951

Subordinate station

Ratio of ranges 0.2

	Time	
	h.	m.
High tide	16	31
Low tide	3	05
Duration of rise or fall	13	26

	Height feet	Height x Ratio of ranges	Time	
			h.	m.
High tide	1.0	0.9	16	31
Low tide	0.0	0.0	-0	30
Range of tide				
		0.9	16	01

	Height feet	Height x Ratio of ranges	Time difference	Time	
				h.	m.
High tide at Ref. Sta.	1.0	0.9	16	31	
Low tide	0.0	0.0	-0	30	
Range of tide					
		0.9	16	01	

	Time difference	Time	
		h.	m.
Low tide at Ref. Sta.		3	05
Time difference		-0	30
Corrected time at Subordinate station		2	15

	h. m.		feet		feet	Photo. No.
Time H. T. or L. T. Required time Interval	16:01 10:21 5:40	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.9 0.4 0.5	Feature bares Stage of tide above MLW Feature above MLW		25872
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		
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		

14-00000

R. E. Smith Jr.  
Computed by

**C. J. Downing**



50. PHOTOGRAMMETRIC OFFICE REVIEW  
T. 93901. 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. Photo hydro stations XXX 8. Bench marks XXX 9. Plotting of sextant fixes XXX 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 XXX

## 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 XX 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G.  
40. Jesse A. Giles M. M. Slavney  
Reviewer Supervisor, Review Section of 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

48. GEOGRAPHIC NAME LIST.BRETON NATIONAL WILDLIFE REFUGECHANDELEUR ISLANDSCHANDELEUR SOUNDCURLEW ISLANDSGULF OF MEXICOLOUISIANAPLAQUEMINES PARISHPOLICE JURY WARD 4 (PLAQUEMINES)POLICE JURY WARD 7 (ST BERNARD)> Not mapped. *SHK*ST. BERNARDParishStake IslandsNames underlined in  
red are approved.8-26-52  
L. HECK



Review Report  
Topographic Map T-9390  
16 February 1955

62. Comparison with Registered Topographic Surveys:

Hyd 1654	1:80,000	1885-86
T-1092	1:20,000	1869
T-3919	1:20,000	1922

Shoreline changes have been so extensive since these surveys that features do not correspond in shape or size. For the area it encompasses, T-9390 supersedes 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
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The advance print of this map manuscript was applied in its entirety to this chart. A few changes in shoreline were made during this review and are shown in red on the map manuscript.

66. Adequacy of Results and Future Surveys:

Because of indicated possible errors in the basic control for this map (see items 31 and 67), compliance with the National Standards of Map Accuracy cannot be stated. However, the map is adequate for present charting needs. Because of the unstable conditions of the land area, Bureau requirements for spacing of ~~hydrographic~~ <sup>topographic</sup> stations were not adhered to. Because of the changing shoreline, the map soon will be inadequate for charting needs.

67. Control for Future Surveys:

Topographic station "Bail" was approximately identified on a field photograph. The photogrammetric-plotted position for this field-identified point differed from the position determined by traverse by approximately 70 meters. The field identification is subject to large error but some discrepancy is indicated between the photogrammetric plot and the traverse in this area.

Reviewed by:

  
Everett H. Ramey

APPROVED:

*H. C. Lande*  
Chief, Review Section  
Photogrammetry Division

*May Hicketts*  
Chief, Nautical Chart Branch  
Charts Division

*L. W. Swanson*  
Chief, Photogrammetry Division

*J. B. Russell*  
Chief, Coastal Surveys Division

*18 July '57*

*mg*

*Signature affixed with knowledge  
of notes on "inaccuracy under  
"adequacy" and "Control..."*



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 SACS Nautical Chart:

<u>No.</u>	<u>Scale</u>	<u>Corrected to</u>
1270	1:80,000	11-22-55

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