

9386

Diag. Cht. No. 1267

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-69(49)B Office No. T9386

LOCALITY

State Louisiana

General locality Chandeleur Sound

Locality North End of Chandeleur Islands

194 50-51

CHIEF OF PARTY

P.L. Bernstein, Chief of Field Party

A.L. Wardwell, Tampa Photogrammetric  
Office

LIBRARY & ARCHIVES

DATE June 27, 1957

9386

# DATA RECORD

T -9386

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 25 1952*

Date reported to Nautical Chart Branch (IV):

*APR 3 - 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): *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*

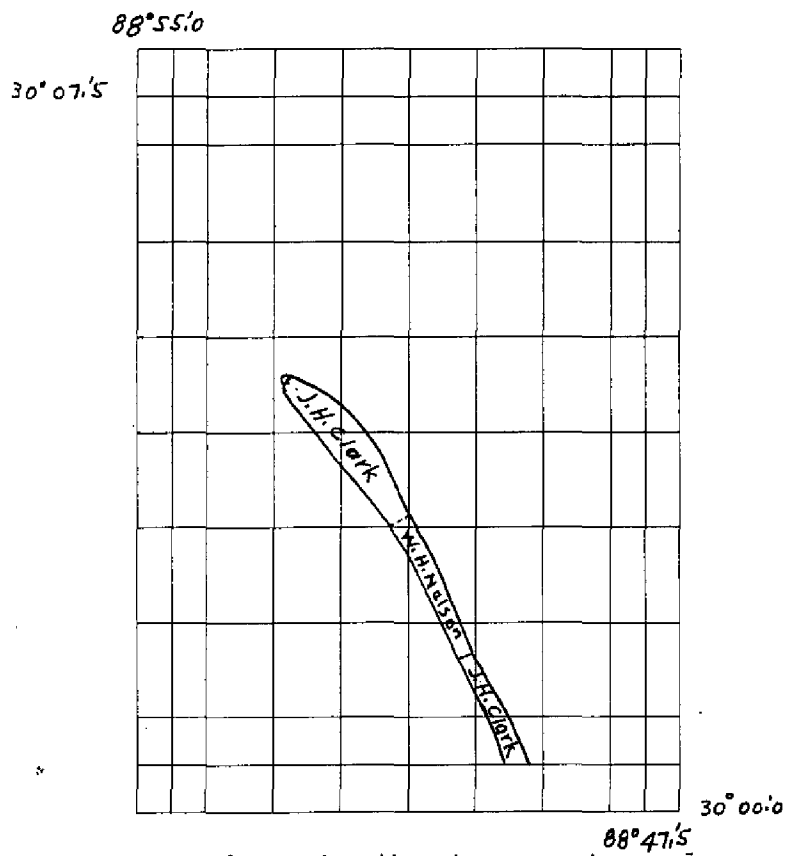
Y= *510 625.34*

X= *2 778 752.28*

*\* Miss. grid South Zone also shown. S.H.K.*

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  
W. H. Nelson

Date: Dec 1950 to  
Apr 1951

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

1950  
Date: Dec/& Apr 1951  
Dec 1950

Completion Surveys by (II): *None*

Date:

Mean High Water Location (III) (State date and method of location): ~~9 April 1951~~  
~~Air Photo. Compilation~~

*identified in field on 1950 photographs*

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

Date: 23 February 1951

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

Date: 26 February 1951

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

Date: 29 May 1951

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

Date: 6 June 1951

Radial Plot ~~or Stereoscopic~~

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

Date:  
22 August 1951

Planimetry  
Stereoscopic Instrument compilation (III): *Inapplicable*  
Contours

Date:

Date:

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

Date: 6 October 1951

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

Date: 21 February 1952

Elevations on Manuscript

checked by ~~(II)~~ (III): R. E. Smith

Date:  
6 October 1951



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

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time			
25879	9 May 1950	10:27		1:20,000	0.6
25880	9 May 1950	10:28		1:20,000	0.6
25882	9 May 1950	10:29		1:20,000	0.6

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: *31 Jan 1955*

Final Drafting by (IV): J.H. Frazier

Date: 14 Nov, 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): 9  
Shoreline (Less than 200 meters to opposite shore) (III): None  
Control Leveling - Miles (II): None  
Number of Triangulation Stations searched for (II): 1  
Number of BMs searched for (II): 4  
Number of Recoverable Photo Stations established (III): 4  
Number of Temporary Photo Hydro Stations established (III): 0

Recovered:	1	Identified:	1*
Recovered:	3	Identified:	1

Remarks:

\* In addition one recoverable topographic station and two unmarked traverse stations of less than third-order accuracy were established and identified.

## Summary to Accompany Topographic Map T-9386

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.  
CRONAR



## 2. AREAL FIELD INSPECTION

The land area is the extreme northerly end of the Chandeleur Islands. This island is a low, narrow barrier beach separating Chandeleur Sound and the Gulf of Mexico.

Field inspection is believed complete and no items were left for field edit. Field inspection was performed on photographs 25880, 25881, and 25882.

The photography was of recent date and no difficulty was encountered in the interpretation of the photographs. The photographic tones range from white in the sand and shell areas to black in the area covered with marsh.

## 3. HORIZONTAL CONTROL

One recoverable topographic station, KNOX, and two unmarked traverse stations, C and E, were established and identified. All are of less than third-order accuracy. See "Special Report, Supplemental Control, Project Ph-60(49)B, Breton and Chandeleur Sounds", forwarded to the Washington Office 16 April 1951, *filed under project data, Div. of Photogrammetry. SNE*

Horizontal control was identified on photographs 25880, 25881, and 25882.

A point opposite the center of photograph 25881 with 30 degrees normal to line of flight could not be positively identified because of lack of detail and changes in the area since photography.

## 4. VERTICAL CONTROL

Four Coast and Geodetic Survey tidal bench marks were searched for and three were recovered. The bench marks which were recovered are CHANDELEUR ISLAND TIDAL BENCH MARKS 2, 3, and 4. These bench marks were used to provide control for the contours within this quadrangle. \*

*\* No geodetic Bms within quadrangle. SNE*

No other vertical control was established.

Vertical control is identified on photograph 25880.

## 5. CONTOURS AND DRAINAGE

Contouring was done directly on nine-lens photographs by standard planetable methods.

The sand dunes near the north end of the island were somewhat stabilized by a growth of vegetation and the contours were drawn in. The remainder of the contouring consists of spot elevations along the sand beach and on shifting sand dunes.



There is no definite drainage pattern.

Contouring was done on photographs 25880, 25881, and 25882.

6. WOODLAND COVER

There is no woodland cover.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was located along the Gulf by an azimuth and distance from stations of the previously mentioned traverse, and by a distance from points which were identifiable on the photographs. The shoreline on the Sound side is in most cases apparent. Some of the sand bars immediately west of the marsh are above mean high water but these bars are not noticeable when passing offshore in a boat.

One pier has been indicated on photograph 25882.

The submarine cable entering the area from the north, as charted on 2nd Edition, Chart 1270, has been taken up by the Coast Guard. This information was supplied by the Chief Petty Officer in Charge of the Gulfport Light Attending Station, U. S. Coast Guard.

8. OFFSHORE FEATURES

The only offshore feature is a shoal running almost directly north and south from the north end of the Chandeleur Islands. This shoal extends southward for several miles and is never bare at any stage of the tide. Inside the shoal is good anchorage for small boats in rough weather. The boats must be shallow draft and familiar with the area to navigate inside the bar.

9. LANDMARKS AND AIDS

All landmarks for nautical charts and fixed aids to navigation are adequately covered by Form 567\* which will be submitted at a later date.

*\* Copy of Form 567 attached to this report. ENR*  
There are no interior landmarks.

There are no aeronautical aids.

10. BOUNDARIES, MONUMENTS, AND LINES

The entire area is in St. Bernard Parish, Police Jury Ward 7. See "Special Report, Boundaries, Project Ph-60(49)", to be submitted at a later date. *This report filed under Project data, Div. of Photogrammetry.*

*\* Jackson and Harrison Counties, Miss. in northern part of quadrangle. ENR*  
There are no recoverable section corners within the area. *(These islands apparently have not been sectionalized by GLO.) ENR*



11. OTHER CONTROL

The following stations were located by the previously mentioned traverse as recoverable topographic stations: KNCK 1950, NEST 1950, BENT 1950, and ATOP 1950.

12. OTHER INTERIOR FEATURES

There are no roads.

The only buildings on the entire island is an inactive Coast Guard Station at the lighthouse. This building has not been used since World War II but it remains in good condition.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project Ph-60(49)", to be submitted at a later date. *This report is filed in Geographic Names Section, Div. of Charts.*

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

"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.

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

Data, Quadrangle T-9386, letter of transmittal 60-12, forwarded to the Tampa Photogrammetric Office 20 April 1951.

Submitted  
18 April 1951

*Isiah J. Fitzgerald*  
*Cartographer (Photo.)*

*for*

William M. Reynolds  
Cartographic Survey Aid

Approved  
20 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.**







11

COMPILATION REPORT T-9386

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-9383.

31. DELINEATION.

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

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.

No difficulty was encountered in compiling the contours.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was adequate and complete. For low-water line information, refer to Item 7. *None mapped. SHR*

36. OFFSHORE DETAILS.

Reference Item 8.

37. LANDMARKS AND AIDS.

Form 567 is being submitted herewith, *copy attached.*



38. CONTROL FOR FUTURE SURVEYS.

Four (4) recoverable topographic stations were previously submitted on Form 524 by the field inspection party. They have been listed under Item 49. Photostatic copies of original forms were furnished compiler and are being forwarded herewith.

39. JUNCTIONS.

Survey T-9384 and Survey T-9385 on the north, in agreement.  
Survey T-9387 on the south, in agreement.  
No contemporary survey on the west.  
No contemporary survey on the east.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

*See §66*

41. PUBLIC LAND LINES.

Reference Item 10.

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, and found to be in fair agreement except for minor shoreline discrepancies.

*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

50.

## PHOTOGRAMMETRIC OFFICE REVIEW

T- 9386

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

## 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 XXX 8. Bench marks J.J. 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 J.G. 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 J.G. 23. Stereoscopic instrument contours XXX 24. Contours in general J.G. 25. Spot elevations J.G. 26. Other physical features J.G.

## CULTURAL FEATURES

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

## 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 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:



48. GEOGRAPHIC NAME LIST.

BRETON NATIONAL WILDLIFE REFUGE

CHANDELEUR ISLANDS

CHANDELEUR SOUND

GULF OF MEXICO

LOUISIANA

POLICE JURY WARD SEVEN

ST BERNARD PARISH

Jackson Co.  
Harrison Co.  
Mississippi

— Not mapped. *SHK*

Names underlined in red  
are approved. 8-21-52  
L. Heck

49. NOTES FOR THE HYDROGRAPHER.

The following topographic stations may be useful to the hydrographer.

KNOX 1950

NEST 1950

BENT 1950

ATOP 1950



# TIDE COMPUTATION

PROJECT NO. PH-60(50)T- 9386

Time and date of exposure 10:28 5-9-50      Reference station PENSACOLA FLORIDA      Mean range           

Date of field inspection JANUARY 1951      Subordinate station CHANDELEUR LIGHT      Ratio of ranges 0.9

	Time		Height feet	Height x Ratio of ranges		Time		Time h. m.
	h.	m.				h.	m.	
High tide	16	31	1.0	0.9	High tide at Ref. Sta.	16	31	3 : 05
Low tide	3	05	0.0	0.0	Time difference	0	30	2 : 30
Duration of rise or fall	13	26		0.9	Corrected time at Subordinate station	16	01	2 : 35

	h.	m.	feet	feet	Photo. No.
Time H. T. or L. T. <i>MLH</i>	16	01			25881
Required time	10	28	0.9	Feature bares	
Interval	5	33	0.3	Stage of tide above MLW	
			0.6	Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	
Time H. T. or L. T.				Feature bares	
Required time				Stage of tide above MLW	
Interval				Feature above MLW	



**STRIKE OUT ONE**

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

The positions given have been checked after listing by Rexford E. Smith, Jr.

**Arthur L. Wardwell** *Chief of Party.*

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating*



Review Report  
Topographic Map T-9386  
31 January 1955

62. Comparison with Registered Topographic Surveys:

T-366	1:10,000	1852
T-548	1:20,000	1855
T-3917	1:20,000	1922

Changes in shoreline of approximately 250 meters have occurred since 1922--more since the other surveys. For the area it encompasses, T-9386 supersedes these prior surveys for nautical charting.

63. Comparison with Maps of Other Agencies:

None.

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

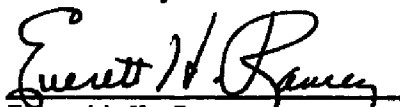
1270	1:80,000	1947, corrected to 54-10/18
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No differences exist.


66. Adequacy of Results and Future Surveys:

This map is adequate for Bureau requirements and complies with National Standards of Map Accuracy.


Reviewed by:


  
Everett H. Ramey

APPROVED:

  
Chief, Review Section  
Photogrammetry Division

  
Chief, Photogrammetry Division

  
Chief, Nautical Chart Branch  
Charts Division

  
Chief, Coastal Surveys Division

27 Jan '57



Applied to Ch 1270 by Frey  
H/A 12-8-52