**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

**1945 50-51**

**CHIEF OF PARTY**
P.L. Bernstein, Chief of Field Party
A.L. Wardwell, Tampa Photogrammetric Office

**LIBRARY & ARCHIVES**

**DATE**: June 27, 1957
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

Method of Compilation (III): Graphic Photogrammetry (IV)

Manuscript Scale (III): 1:20,000 Office Files

Scale Factor (III): None

Date received in Washington Office (IV): MAR 25 1950

Date reported to Nautical Chart Branch (IV): APR 20 1953

Applied to Chart No. Date: Date registered (IV): 8-20-53

Publication Scale (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III): MSL

Mean sea level except as follows:

Elevations shown as (0) refer to mean high water

Elevations shown as (0) 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

Plane Coordinates (IV):

Y = 510 625.34 State: LA Zone: South

X = 2778 752.28

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.

Form T-Page 1
Areas contoured by various personnel
(Show name within area)
(I) (II) (III)
DATA RECORD

Field Inspection by (II): W. M. Reynolds  
                      J. H. Clark  
                      W. H. Nelson  

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

Completion Surveys by (II): None  

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.)  

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

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

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

Radial Plot on stereoscopic contour sheet by (III): M. M. Slavney  

Stereoscopic Instrument compilation (III): Inapplicable  
Planimetry  
Contours  

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

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

Elevations on Manuscript checked by (III): R. E. Smith  

Date: Dec 1950 to Apr 1951  
1950  
Date: Dec/Apr 1951  
Dec 1950  

Date: 23 February 1951  
Date: 26 February 1951  
Date: 29 May 1951  

Date: 6 June 1951  

Date: 22 August 1951  

Date: 6 October 1951  

Date: 21 February 1952  

Date: 6 October 1951
Camera (kind or source) (III): U.S.C. & G.S. - Nine-lens Camera, Focal length 8.24 inches

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>25879</td>
<td>9 May 1950</td>
<td>10:27</td>
<td>1:20,000</td>
<td>0.6</td>
</tr>
<tr>
<td>25880</td>
<td>9 May 1950</td>
<td>10:28</td>
<td>1:20,000</td>
<td>0.6</td>
</tr>
<tr>
<td>25882</td>
<td>9 May 1950</td>
<td>10:29</td>
<td>1:20,000</td>
<td>0.6</td>
</tr>
</tbody>
</table>

Tide (III)

Reference Station: PENSACOLA
Subordinate Station: CHANDELEUR LIGHT

Washington Office Review by (IV): Everett H. Ramen
Final Drafting by (IV): J.H. Frazier
Drafting verified for reproduction by (IV):
Proof Edit by (IV):

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

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 planimetric 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, check-backed copies of the manuscript and the published map.
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, KNCN, 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.

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 CHANDELIER ISLAND TIDAL BENCH MARKS 2, 3, and 4. These bench marks were used to provide control for the contours within this quadrangle.

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 planstable 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 25830, 25831, and 25832.

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 25832.

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

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 Topography.

* Jackson and Harrison Counties, Miss. in northern part of quadrangle, sur.

There are no recoverable section corners within the area. (These islands apparently have not been sectioned by GLO)
11. **OTHER CONTROL**

The following stations were located by the previously mentioned traverse as recoverable topographic stations: KNOK 1950, NEAT 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

[Signature]

For
William M. Reynolds
Cartographic Survey Aid

Approved
20 April 1951

[Signature]

Percy L. Bernstein
Chief of Party
PHOTOMETRIC FLOT REPORT

This report is filed as part of the Descriptive Report for F-9383 and covers maps F-9383 thru F-9393.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>LONGITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHANDELEUR LIGHTHOUSE, 1910</td>
<td>G.P. Pg 79</td>
<td>McA 1927</td>
<td>30 02</td>
<td>52.272</td>
<td>1,609.5 (238.0)</td>
<td>490.3 (1,117.3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KNOX, 1950</td>
<td>Field Comp.</td>
<td></td>
<td>30 03</td>
<td>09.90</td>
<td>304.8 (1,542.6)</td>
<td>837.7 (769.6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S.P. TRAVERSE STA. C</td>
<td>Comp.</td>
<td></td>
<td>30 01</td>
<td>31.27</td>
<td>1,232.7 (523.7)</td>
<td>83.3 (1,524.3)</td>
<td></td>
<td></td>
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<tr>
<td>S.P. TRAVERSE STA. E</td>
<td></td>
<td></td>
<td>30 00</td>
<td>50</td>
<td>1,068.2 (779.3)</td>
<td>1,010.0 (597.9)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Trav. Sta. C & E are unmarked stations used to control the radial plot. (?)
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 § 1

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. See § 62.

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 52h 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 on the north, in agreement.
Survey T-9385 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 566.

41. PUBLIC LAND LINES.

Reference Item 10.

46. COMPARISON WITH EXISTING MAPS.

None. See 562.

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.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

APPROVED AND FORWARDED:

Arthur L. Wardwell
Chief of Party
50. PHOTOGRAMMETRIC OFFICE REVIEW
T. 9386


CONTROL STATIONS

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

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

MISCELLANEOUS
40. Jesse A. Gilel, Jesse A. Gilel
Reviewer
William A. Rasure
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

[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
<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Time and date of exposure:** 10:28 5-9-50  
**Reference station:** PENSACOLA FLORIDA  
**Date of field inspection:** JANUARY 1951  
**Subordinate station:** CHANDELEUR LIGHT  
**Mean range:**  
**Ratio of ranges:** 0.9

<table>
<thead>
<tr>
<th>Time</th>
<th>h. m.</th>
<th>Ht. H. T.</th>
<th>Tabular correction</th>
<th>Stage of tide above MLW</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16:01</td>
<td></td>
<td>0.9</td>
<td>Feature bares</td>
</tr>
<tr>
<td></td>
<td>10:28</td>
<td>Ht. H. T.</td>
<td>0.6</td>
<td>Stage of tide above MLW</td>
</tr>
<tr>
<td></td>
<td>5:33</td>
<td></td>
<td>Feature bares</td>
<td>Stage of tide above MLW</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Feature bares</td>
<td>Stage of tide above MLW</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Feature bares</td>
<td>Stage of tide above MLW</td>
</tr>
</tbody>
</table>

**Computed by:** R. E. Smith Jr.  
**Checked by:** I. I. Saperstein
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

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

Arthur L. Cardwell  
Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>LOUISIANA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>LIGHT</td>
<td>CHANDLER (Square pyramidal skeleton tower, brown below gallery, black above,) ht=99</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POSITION</th>
<th>LATITUDES</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>±</td>
<td>±</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>±</td>
<td>0° 02' 52.272&quot;</td>
<td>88° 52' 1609.5&quot;</td>
<td>18.293</td>
<td>H.A.</td>
<td>1927 Triang.</td>
<td>1267</td>
</tr>
<tr>
<td></td>
<td>±</td>
<td>±</td>
<td></td>
<td></td>
<td></td>
<td>1270</td>
</tr>
</tbody>
</table>
Review Report
Topographic Map T-9386
31 January 1955

62. Comparison with Registered Topographic Surveys:

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-366</td>
<td>1:10,000</td>
<td>1852</td>
</tr>
<tr>
<td>T-548</td>
<td>1:20,000</td>
<td>1855</td>
</tr>
<tr>
<td>T-3917</td>
<td>1:20,000</td>
<td>1922</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Chart</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1270</td>
<td>1:80,000</td>
<td>1947, corrected to 54-10/18</td>
</tr>
</tbody>
</table>

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:

Chairs, Review Section
Photogrammetry Division

Chief, Photogrammetry Division
27 June 57

Chief, Review Section
Photogrammetry Division

Chief, Nautical Chart Branch
Charts Division

Chief, Coastal Surveys Division