
Form 864

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey: TOPOGRAPHIC

Field No.: Ph-89  Office No.: T-9657

LOCALITY

State: LOUISIANA
General locality: LAKE BORGNE
Locality: MALHEUREUX POINT

1955

CHIEF OF PARTY
P. L. Bernstein, Chief of Field Party
Ira. R. Rubottom, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE
SUMMARY TO ACCOMPANY TOPOGRAPHIC MAP

This topographic map is one of 17 similar maps of Project PH-89. It covers a portion of Louisiana from Mississippi Sound south to Breton Sound.

Project PH-89 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 nine-lens photographs by planable methods, and the investigation of geographic names and political boundaries.

Since almost all the terrain was marsh, only 3 of the maps on PH-89 were field edited. They are T-9660, T-9665, T-9667. All were compiled at the scale of 1:20,000, using nine-lens photographs taken in 1952. Newer 6W camera photographs taken in 1955 were used to revise delineation where necessary. There were few such cases.

With the addition of hydrographic data these maps will be forwarded to the Geological Survey for publication as standard 7½ minute quadrangles.

Items registered under each map number will include a Cronar film positive and a descriptive report.
DATA RECORD

T-9657

Project No. (II): Ph-89
Quadrangle Name (IV): MALHEURÉUX POINT

Photogrammetric Office (III): Tampa, Fla.
Instructions dated (II) (III): 11 April 1952

Chief of Party: P.L. Bernstein
Officer-in-Charge: Ira R. Rubottom
Copy filed in Division of Photogrammetry (IV)

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 6, 1955
Date reported to Nautical Chart Branch (IV):
Date registered (IV): JUL 21, 1955

Applied to Chart No.

Publication Scale (IV):
Geographic Datum (III): N.A. 1927

Publication date (IV):
Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (6) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): BLIND 1934
Lat.: 30° 02' 46.113" (1419.9m.) Long.: 89° 25' 16.625" (445.4m.)

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.
Areas contoured by various personnel
(Show name within area)
(II) (III)
DATA RECORD

Field Inspection by (II): S.L. Hollis, Jr.
B.F. Lampton, Jr.
Date: June, Aug. 1952

Planetable contouring by (II): S.L. Hollis, Jr.
B.F. Lampton, Jr.
Date: Aug. 1952

Completion Surveys by (II): See Report HM 66
Date:

Mean High Water Location (III) (State date and method of location): August 1952
Air Photo Compilation
Date: 17 June 1953

Projection and Grids ruled by (IV): Joan Thuma (W.O.)
Date: 17 June 1953

Projection and Grids checked by (IV): H. D. Wolfe (W.O.)
Date: 7 Aug. 1953

Control plotted by (III): I. I. Saperstein
Date: 7 Aug. 1953

Control checked by (III): R. J. Pate
Date: 21 May 1954

Radial Plot or Stereoscopic
Control extension by (III): M. M. Slavney
Date:

Stereoscopic Instrument compilation (III): Inapplicable

Planimetry
Contours

Manuscript delineated by (III): R. A. Reece
Date: 3 May 1955

Photogrammetric Office Review by (III): J. A. Giles
Date: 4 May 1955

Elevations on Manuscript checked by (II) (III): J. A. Giles
Date: 4 May 1955
**PHOTOGRAPHS (III)**

<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>35272</td>
<td>27 Feb. 1952</td>
<td>10:38</td>
<td>1:20,000</td>
<td>0.3</td>
</tr>
<tr>
<td>35273</td>
<td>&quot;</td>
<td>10:39</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>35274</td>
<td>&quot;</td>
<td>10:40</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>35275</td>
<td>&quot;</td>
<td>10:40</td>
<td>&quot;</td>
<td>&quot;</td>
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<td>35276</td>
<td>&quot;</td>
<td>10:40</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>35300</td>
<td>&quot;</td>
<td>11:11</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>35301</td>
<td>&quot;</td>
<td>11:11</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>35302</td>
<td>&quot;</td>
<td>11:12</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
</tbody>
</table>

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**Tide (III)**

From predicted tides.

Reference Station: PENSACOLA, FLORIDA
Subordinate Station: LONG POINT, LAKE BORGNE, LA.

**Ratio of Mean Spring Range**

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.8</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Date: Sept 13, 1957

---

**Land Area (Sq. Statute Miles) (III):** 21
**Shoreline (More than 200 meters to opposite shore) (III):** 41
**Shoreline (Less than 200 meters to opposite shore) (III):** None
**Control Leveling: Miles (II):** None
**Number of Triangulation Stations searched for (II):** 3
**Recovered:** 2
**Identified:** 2
**Number of BMs searched for (II):** None
**Number of Recoverable Photo Stations established (III):** 1
**Number of Temporary Photo Hydro Stations established (III):** None

Remarks:
9. LANDMARKS AND AIDS
   There are no landmarks in the area. NINEMILE BAYOU ENTRANCE LIGHT was identified on the photograph and pricked direct.

10. BOUNDARIES, MONUMENTS, AND LINES
    See Field Inspection Report, Quadrangle T-9659( ).

11. OTHER CONTROL
    No other control was established.

12. OTHER INTERIOR FEATURES
    There are two cabins in the quadrangle.

13. GEOGRAPHIC NAMES
    See "Special Report, Geographic Names, Project Ph-89".

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA
    See Field Inspection Report, Quadrangle T-9659( ).

Submitted
8 September 1952

[Signature]
Steven L. Hollis, Jr.
Lieut. (j.g.), U.S.C. & G.S.

Approved & Forwarded
11 Sept. 1952

[Signature]
Percy L. Bernstein
Chief of Party
COMPILATION REPORT T-9657

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-9665

31. DELINEATION

The graphic method was used.

Photographs were clear and of fair scale.

Field inspection was adequate. No unusual problems were encountered.

32. CONTROL

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

The maximum ground elevation is three feet.

Drainage was delineated without any difficulty.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate. The shoreline was delineated as interpreted from the photographs, and in accordance with the field inspection notes submitted.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

There are no landmarks. One (1) fixed aid to navigation is submitted on Form 567.
38. CONTROL FOR FUTURE SURVEYS

One (1) topographic station listed under Item 49 is being submitted on Form 524.

39. JUNCTIONS

A satisfactory junction has been secured with T-9656 on the west, T-9658 on the east, T-9662 on the south and T-9791 on the north.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. PUBLIC LAND LINES

No control for the location of public land lines was recovered by the field inspector; therefore no land lines were shown.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with USGS Planimetric Map T-5321 (Mississippi Sound) scale 1:20,000, compiled from photographs taken on 2 and 28 November 1932. Only minor changes in the shoreline have taken place.

Comparison was also made with U.S. Geological Survey Quadrangle MALHEUREUX POINT, scale 1:31,680, dated 1935. Only minor shoreline differences exist.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with USCGS Nautical Chart No. 1268, scale 1:80,000, published September 1940, bearing a print date of April 13, 1953.

The maps listed under Item 46 appear to be the source of topography and the same minor differences exist.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None
ITEMS TO BE CARRIED FORWARD

None.

Richard A. Reece
Carto Photo Aid

APPROVED AND forwarded

Ira R. Rubottom, Chief of Party
48. GEOGRAPHIC NAME LIST

BAYOU LA FEE (if other than cape are used it should be Bayou La Fee)
BLIND BAY
BLIND PASS
FALSE MOUTH BAY
LAKE BORNE
LAKES OF BAYOU MARRON
LE PETIT PASS ISLAND
LE PETIT PASS
LOUISIANA
MALHEUREUX POINT
MISSISSIPPI SOUND

*NINE MILE BAY
*NINE MILE BAYOU
RACOON ISLAND
SOUTH BAYOU
ST BERNARD PARISH

THREE MILE BAY (one word)

Names approved 9-6-55 L. Heck.

* "NINEMILE" shown as one word on Chart 1268 but as two on USGS MALHEUREUX POINT quadrangle, which was used to prepare the FINAL NAME SHEET by the Washington Office.
NOTES FOR THE HYDROGRAPHER

Following is one (1) topographic station that will be useful to the hydrographer:

NINEMILE BAYOU ENTRANCE LIGHT, 1952
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

Richard A. Reese

<table>
<thead>
<tr>
<th>Charting Name</th>
<th>Description</th>
<th>Signal Name</th>
<th>Latitude (N)</th>
<th>Longitude (W)</th>
<th>Datum</th>
<th>Method of Location and Survey</th>
<th>Date of Location</th>
<th>Number Charted</th>
<th>Offshore Chart</th>
<th>Charts Affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>NINE MILE BATOU ENTRANCE</td>
<td>LIGHT Black box on dolphin</td>
<td>30 02 52.03 08 25 10.30</td>
<td>N.A.</td>
<td>F-9657</td>
<td>1952</td>
<td>x</td>
<td>1266</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
PHOTOGRAMMETRIC OFFICE REVIEW

T- 9657

1. Projection and grids \textit{WWD}  
2. Title \textit{JAG}  
3. Manuscript numbers \textit{JAG}  
4. Manuscript size \textit{JAG}  

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy \textit{MNS}  
6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) \textit{JAG}  
7. Photo hydro stations \textit{XX}  
8. Bench marks \textit{XX}  
9. Plotting of sextant fixes \textit{XX}  
10. Photogrammetric plot report \textit{WAR}  
11. Detail points \textit{JAG}  

ALONGSHORE AREAS  
(Nautical Chart Data)

12. Shoreline \textit{JAG}  
13. Low-water line \textit{JAG}  
14. Rocks, shoals, etc. \textit{JAG}  
15. Bridges \textit{XX}  
16. Aids to navigation \textit{JAG}  
17. Landmarks \textit{XX}  
18. Other alongshore physical features \textit{JAG}  
19. Other alongshore cultural features \textit{JAG}  

PHYSICAL FEATURES

20. Water features \textit{JAG}  
21. Natural ground cover \textit{JAG}  
22. Planetary contours \textit{XX}  
23. Stereoscopic instrument contours \textit{XX}  
24. Contours in general \textit{XX}  
25. Spot elevations \textit{JAG}  
26. Other physical features \textit{JAG}  

CULTURAL FEATURES

27. Roads \textit{XX}  
28. Buildings \textit{JAG}  
29. Railroads \textit{XX}  
30. Other cultural features \textit{XX}  

BOUNDARIES

31. Boundary lines \textit{XX}  
32. Public land lines \textit{XX}  

MISCELLANEOUS

33. Geographic names \textit{JAG}  
34. Junctions \textit{JAG}  
35. Legibility of the manuscript \textit{JAG}  
36. Discrepancy overlay \textit{XX}  
37. Descriptive Report \textit{JAG}  
38. Field inspection photographs \textit{JAG}  
39. Forms \textit{JAG}  
40. \textit{Signature: \textit{Jesse A. Giese}}  
   \textit{Reviewer}

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.  

43. Remarks:  

\underline{Compiler} \hfill \underline{Supervisor}  

M-2623-12
## Tide Computation

**PROJECT NO. Ph: 89 T-9657**

**Time and date of exposure:** 27 Feb 1952  
**Reference station:** Pensacola, Florida  
**Diurnal Mean range:** 1.0 ft

**Date of field inspection:** 26 Aug 1952  
**Subordinate station:** Long Point, Lake Borgne, LA  
**Ratio of ranges:** 0.8

<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
<th>Time</th>
<th>Height at Ref. Sta.</th>
<th>Time difference</th>
<th>Time</th>
<th>Height at Ref. Sta.</th>
<th>Time difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>High tide</td>
<td>0.5 ft</td>
<td>0.41</td>
<td>Low tide</td>
<td>0.4 ft</td>
<td>0.31</td>
<td>Corrected time at Subordinate station</td>
<td>13.59</td>
<td>Corrected time at Subordinate station</td>
</tr>
<tr>
<td>Duration of rise or fall</td>
<td>04:44</td>
<td></td>
<td>Range of tide</td>
<td>0.1 ft</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time (h. m.)</th>
<th>Ht. T. or L. T.</th>
<th>Tabular correction</th>
<th>Stage of tide above MLW</th>
<th>feet</th>
<th>Photo. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.15</td>
<td>10.40</td>
<td>0.3 ft</td>
<td>Feature bares</td>
<td>0.3</td>
<td>35274</td>
</tr>
<tr>
<td>1.25</td>
<td>Tabular correction</td>
<td>Stage of tide above MLW</td>
<td>0.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time (h. m.)</td>
<td>Ht. T. or L. T.</td>
<td>Tabular correction</td>
<td>Stage of tide above MLW</td>
<td>feet</td>
<td>Photo. No.</td>
</tr>
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</tr>
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<td>Tabular correction</td>
<td>Stage of tide above MLW</td>
<td>feet</td>
<td>Photo. No.</td>
</tr>
</tbody>
</table>

Computed by [Signature]  
Checked by [Signature]
REVIEW REPORT T-9657
Topographic
13 September 1957

61. General Statement

See summary

62. Comparison With Registered Topographic Surveys

<table>
<thead>
<tr>
<th>Sheet</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>405</td>
<td>1:20,000</td>
<td>1853</td>
</tr>
<tr>
<td>3664</td>
<td>1:40,000</td>
<td>1917</td>
</tr>
</tbody>
</table>

Manuscript T-9657 supercedes all the above surveys in common areas as source material for chart construction.

63. Comparison With Maps of Other Agencies

USGS Malheureux Point, 1:31,680, 1935

64. Comparison With Contemporary Hydrographic Surveys

None

65. Comparison With Nautical Charts

1268, 1:80,000, 3rd Ed. 1940, 3/25/57

66. Adequacy of Results And Future Surveys

This manuscript complies with all instructions and meets the National Standards of Map Accuracy.

No field edit was necessary due to the sparsity of culture and the completeness of field inspection. The manuscript was compared with USC&GS 1955 W Camera photography to verify the delineation.
Reviewed By:

A. K. Heywood

Approved

Le Hunte
Chief, Review Branch
Photogrammetry Division

Chief, Nautical Chart Branch
Charts Division

Chief, Coastal Surveys Div.