# Descriptive Report

**Type of Survey**  
Shoreline Photogrammetric

**Field No.**  
Project PH-14(44)  
Office No.  
T-8949

**Locality**

**State**  
Texas

**General locality**  
Gulf Intracoastal Waterway

**Locality**  
West Bay to Big Slough

---

**1947**

**Chief of Party**  
Ross A. Gilmore, Chief of Field Party  
Thos. B. Reed, Baltimore Photo. Office

**Library & Archives**

**Date**  
December 26, 1957
DATA RECORD

T - 8949

Project No. (II): PH-14(46)  Quadrangle Name (IV):

Field Office (II): Fort Lavaca, Texas  Chief of Party: Ross A. Gilmore

Photogrammetric Office (III): Baltimore, Maryland  Officer-in-Charge: Thos. B. Reed

Instructions dated (II) (III):
(not dated) Supplement 1, 22 July 1947
Letters dated 5 June 1947 and 29 July 1947 and
4 February 1949

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000  Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV): 10-13-49  Date reported to Nautical Chart Branch (IV): 10-19-49

Applied to Chart No. 887  Date: Nov/1458  Date registered (IV): 20 Nov 1957

Publication Scale (IV):

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

Vertical Datum (III): M.H.W.
Mean sea level except as follows:
Elevations shown as (26) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): RIDGE, 1933

Lat.: 29° 04' 15.286" (470.6m)  Long.: 95° 11' 56.171" (1519.3m)

Adjusted

Plane Coordinates (IV):

State: Texas  Zone: South Central

\[
\begin{align*}
Y &= \text{ } \\
X &= \text{ }
\end{align*}
\]

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.
DATA RECORD

Field Inspection by (II): C.H. Bishop
Date: December 1947

Planetable contouring by (II):
Date:

Completion Surveys by (II):
Date:

Mean High Water Location (III) (State date and method of location): 21 November 1946
Located on field photographs.

Projection and Grids ruled by (IV): W.E.W.
Date: 9 February 1949

Projection and Grids checked by (IV): W.E.W.
Date: 9 February 1949

Control plotted by (III): J. Honick
M.F. Kirk
Date: 22 April 1949
10 May 1949

Control checked by (III): M.F. Kirk
P.J. Tarcza
Date: 10 May 1949
11 May 1949

Radial Plot (III):
F.J. Tarcza

Planimetry

Stereoscopic Instrument compilation (III):
Contours

Manuscript delineated by (III): G.N. Nathan
Date: 15 July 1949 to 26 August 1949

Photogrammetric Office Review by (III): J.W. Vonasek
Date: 29 Sept. 1949 to 6 Oct. 1949

Elevations on Manuscript
checked by (II) (III):

Date:
Camera (kind or source) (III): U.S.C. & G.S. nine-lens camera, focal length 8½"

**PHOTOGRAPHS (III)**

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**Tide (III)**

Reference Station: Galveston, Texas (Galveston Channel
Subordinate Station: Brazosport, Freeport Harbor

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**Diurnal**

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 11
Shoreline (More than 200 meters to opposite shore) (III): 29.4 statute miles
Shoreline (Less than 200 meters to opposite shore) (III): 17.5 statute miles
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 5
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): none

Remarks:
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<th>LATITUDE OR y-COORDINATE</th>
<th>LONGITUDE OR x-COORDINATE</th>
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COMPILATION REPORT

T - 8949

FIELD INSPECTION REPORT


PHOTOGRAFMOETRIC PLOT REPORT

Refer to the radial plot report for Surveys T-8945 through T-8950 submitted by Frank J. Tarcza, 22 June 1949.

31. Delineation

The manuscript was delineated by graphic methods only.

The area of Mud Island in the southeastern portion of the manuscript was incompletely delineated because of incomplete photographic coverage.

32. Control

With the exception of the south edge of the manuscript, the identification, the density, and the placement of the horizontal control were inadequate for a completely satisfactory delineation of the survey. See the radial plot report for T-8945 through T-8950, submitted by Frank J. Tarcza, 22 June 1949.

33. Supplemental Data

Data from Form 250, Field Observations, Vol. 5 of 5 volumes, (Sextant Fixes), were used to plot the locations of the floating aids to navigation.

Part of planetable Survey T-4852 (1933) corrected in 1947 covers this area.

34. Contours and Drainage

Contours - Inapplicable.
Drainage - No comment.

35. Shoreline and Alongshore Details

The shoreline inspection was found to be adequate. The shallow areas were delineated from office interpretation of the photographs.

36. Offshore Details

No comment.
37. **LANDMARKS AND AIDS**

Form 567 for non-floating aids to navigation are being submitted with this report. The positions of two of the floating aids were located during the radial plot and the remaining floating aids were located by sextant fixes furnished by the field party. See field inspection report for non-existent aids which are shown on Chart 1282. (Chart Letter No. 84,1948)

Port Arthur, Texas to Cedar Lakes, Texas, January, 1948

38. **CONTROL FOR FUTURE SURVEYS**

One recoverable topographic station has been established in the area of this manuscript. Form 524 is submitted with this report.

39. **JUNCTIONS**

The east, southeast, west, and northwest limits of T-3940 are the limits of the project. Junction has been made with T-3948 to the northeast and with T-3950 to the southwest; the junctions are in agreement.

40. **HORIZONTAL AND VERTICAL ACCURACY**

See paragraph 32 of this report.

41 through 45.

Inapplicable.

46. **COMPARISON WITH EXISTING MAPS**

The manuscript has been compared with the following Army Map Service quadrangles, scale 1:25,000, edition of 1947:

Chocolate Bay, Texas
Christmas Point, Texas.
47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison was made with Chart No. 1282, scale 1:80,000, published February 1945 and corrected to 13 April 1949 and with Chart No. 1283, scale 1:80,000, published May 1940 and corrected to 8 August 1949.

**Items to be applied to nautical charts immediately:**

None.

**Items to be carried forward**

None.

Respectfully submitted
31 August 1949

[Signature]
Cartographer (photo)

Approved and forwarded
12 October 1949

[Signature]
Officer in Charge
Baltimore Photogrammetric Office
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  

NONFLOATING AIDS FOR CHARTS  

Baltimore, Maryland  
29 August 1949

I recommend that the following objects which have not 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

Joseph W. Vanassek

Thos. B. Read  
Chief of Party

<table>
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<tr>
<th>STATE</th>
<th>TEXAS</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</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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<td>LITTLE OYSTER LAKE</td>
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</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.
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 K. N. Maki

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
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<th>D.M. METERS</th>
<th>D.P. METERS</th>
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<th>DATE OF LOCATION</th>
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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.
PHOTOGRAHMETRIC OFFICE REVIEW

T-8949

1. Projection and grids

2. Title

3. Manuscript numbers

4. Manuscript size

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy

6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)

7. Photo hydro stations

8. Bench marks

9. Plotting of sextant fixes

10. Photogrammetric plot report

11. Detail points

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline

13. Low-water line

14. Rocks, shoals, etc.

15. Bridges

16. Aids to navigation

17. Landmarks

18. Other alongshore physical features

19. Other alongshore cultural features

PHYSICAL FEATURES

20. Water features

21. Natural ground cover

22. Plotted contours

23. Stereoepic instrumental contours

24. Contours in general

25. Spot elevations

26. Other physical features

CULTURAL FEATURES

27. Roads

28. Buildings

29. Railroads

30. Other cultural features

BOUNDARIES

31. Boundary lines

32. Public land lines

MISCELLANEOUS

33. Geographic names

34. Junctions

35. Legibility of the manuscript

36. Discrepancy overlay

37. Descriptive Report

38. Field inspection photographs

39. Forms

40. Reviewer

Joseph W. Storozewski

Supervisor

Joseph Steingróg

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:
REMARKS

13. No LWL information was furnished.

15, 27, 29, 30. None of these features appear on the manuscript.

[Signature]
Reviewer
48. GEOGRAPHIC NAME LIST

- Alligator Lake
- Alligator Slough
- Bastrop Bay
- Bastrop Bayou
- Big Slough
- Christmas Bay
- Christmas Point
- Christmas Point Reef
- Cox Lake
- Guyton Cut

**Hays Ridge = 09°15' 10°15'
**Hoskins Mound = 09°30' 13°15'
**Intracoastal Waterway

**Little Mounds = 09°10' 17°45'
**Lost Lake
- Mud Island
- Oyster Lake
- Oyster Lake Bayou
* Oyster Lake Marsh = 09°40' 17°
- Port Morris
- Spillway Ditch
- West Bay

* Not shown on the manuscript (approximate positions given above)

** Formerly named Oyster Bay. The name Christmas Bay is pending with the U.S. Board of Geographic Names. (due for action by Board in Sept 1950. Christmas Bay recommended for)

The names on this list were compiled from the Final Names Standard dated 15 July 1949.

Names preceded by * are approved. 9-14-50.

W. Mack
Review Report T-8949
Shoreline Survey
22 September 1950

61. General Statement.-Shoreline survey T-8949, scale 1:10,000, is one of 76 maps comprising the four parts of project Ph-14(46) covering the Intracoastal Waterway from Houma, Louisiana to Port Aransas, Texas. Part III of Ph-14 extends from Port Arthur, Texas to Freeport Texas and consists of 16 maps. T-8949 is one of these.

62. Comparison with Registered Topographic Surveys.-

| T-375 | 1:20,000 | 1852 |
| T-4853 | 1:10,000 | 1933 |
| T-4866 | 1:20,000 | 1933-34 |

The above surveys are superseded by T-8949 for nautical charting purposes.

63. Comparison with Maps of Other Agencies.-

Chocolate Bay, Texas (USE) 1:31,680 1942-43
Christmas Point, Texas (USE) 1:31,680 1942-43

64. Comparison with Contemporary Hydrographic Surveys.- None

65. Comparison with Nautical Charts.-

1282 (Latest correction date 3-6-50) 1:80,000

A piece of land at the northernmost part of Oyster Lake is not shown on the nautical chart. Little Oyster Lake Day-beacon which is at the southwest tip of this land also does not appear on the chart.

The name "Oyster Bay" has been changed to "Christmas Bay", approved by The Board of Geographic Names on September 14, 1950.

66. Adequacy of Results and Future Surveys.-Field inspection was adequate in the immediate vicinity of the Intracoastal Waterway. The southernmost section of T-8949 complies with rational standards of accuracy. The map as a whole fulfills project instructions and is adequate for 1:40,000 scale nautical charts construction.

67. Control.-Triangulation station Hartrick (USE) 1906 was plotted on the manuscript by review. Its position as shown on Form H-2388-12 was obtained by applying the 1927 datum correction as obtained from the U.S.C.& G.S. publication "Datum Differences, Atlantic, Gulf and Pacific Coasts, U.S."
Triangulation stations Fort Bayou (USE) 1912 and Christmas Point (USE) 1906 both of which fall within the limits of T-8949 have not been plotted on the manuscript. However, their North American datum positions are available in the Division of Geodesy.

Triangulation station Mud Island Channel Beacon 1, 1933, was not plotted on the manuscript. The beacon was "discontinued" according to "Notice to Mariners" dated October 19, 1937.

The manuscript position of topo station Mon. 561.1 (USE) 1947 was moved during review. The change of its geographic position has been noted on Form 524 filed in the general files of the Division of Photogrammetry.

68. Radial plot—The accuracy of the southern portion of T-8949 was verified during review. The geographic position of Hartrick (USE) 1906 was found to agree with its radially plotted position within accuracy standards. Evidently no geographic position for Hartrick was obtained for use in controlling the plot although its position was field pricked on the aerial photographs.

The accuracy of the northern part of T-8949 (see radial plot report in T-8945 Descriptive Report) may have been increased had triangulation station Hoskins Mound Freeport Sulphur Co. Stack 1931 been used. This station is plainly visible on photograph 18399 and falls on the margin of the sheet slightly outside its limits.

69. Landmarks and Aids to Navigation—An additional Form 567 has been submitted with new geographic positions for Chocolate Bay Range B front and rear lights.

Two large buildings approximately 2 miles from the Intracoastal Waterway are shown on the manuscript. These are probably visible from the waterway (the surrounding land is very flat) and may have landmark value.

Reviewed by:

[Signature]
Howard J. Murray

APPROVED

[Signature]
Chief, Review Section NHQ - 1/30/51
S. V. Swift
Division of Photogrammetry

[Signature]
Chief, Nautical Chart Branch
Division of Charts
W. M. Dailey

[Signature]
Chief, Div. of Photogrammetry
J. F. Reading

[Signature]
Chief, Div. of Coastal Surveys
W. M. Dailey
## Nautical Charts Branch

**Survey No.** 8949

### Record of Application to Charts

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<th>Date</th>
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A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

Give reasons for deviations, if any, from recommendations made under “Comparison with Charts” in the Review.