

8848

Diag. Ght. Nos. 1282 & 1283

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline Photogrammetric

Field No. Project PH-14(46) 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, 1951

# DATA RECORD

T - 8949

Project No. (II): PH-14(46)

Quadrangle Name (IV):

Field Office (II): Port 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: Mar. 1, 1950 Date registered (IV): 20 Nov. 1951.

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): M.H.W.

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): RIDGE, 1933

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

Adjusted  
~~known~~

Plane Coordinates (IV):

State: Texas

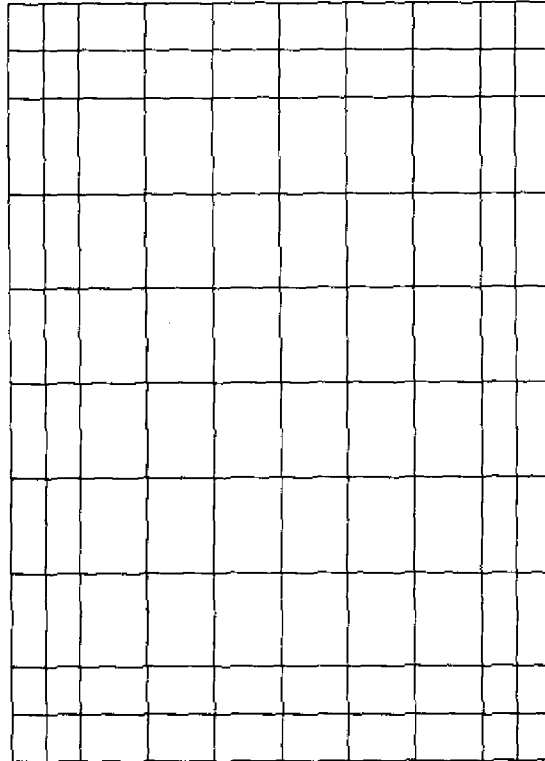
Zone: South Central

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)

Shoreline

# 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  
F.J.Tarcza

Date: 10 May 1949  
11 May 1949

~~Radial Plot of Stereoscopic~~  
~~Control extension by (III)~~ F.J.Tarcza

Date: 18 May 1949

~~Stereoscopic Instrument compilation (III):~~  
Planimetry  
Contours

Date:

Date:

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 8 $\frac{1}{4}$ "

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
18396 to 18398 incl.	11/21/46	2:13	1:10,000	0.2' above MHW
18399 to 18401 incl.	11/21/46	2:20	1:10,000	0.3' above MHW

Tide (III)

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

Diurnal		
Ratio of Ranges	Mean Range	<del>Spring</del> Range
1.0	1.0	1.4
1.6	1.6	1.9

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date: 3/14/51

Proof Edit by (IV):

Date: 7/3 51

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):

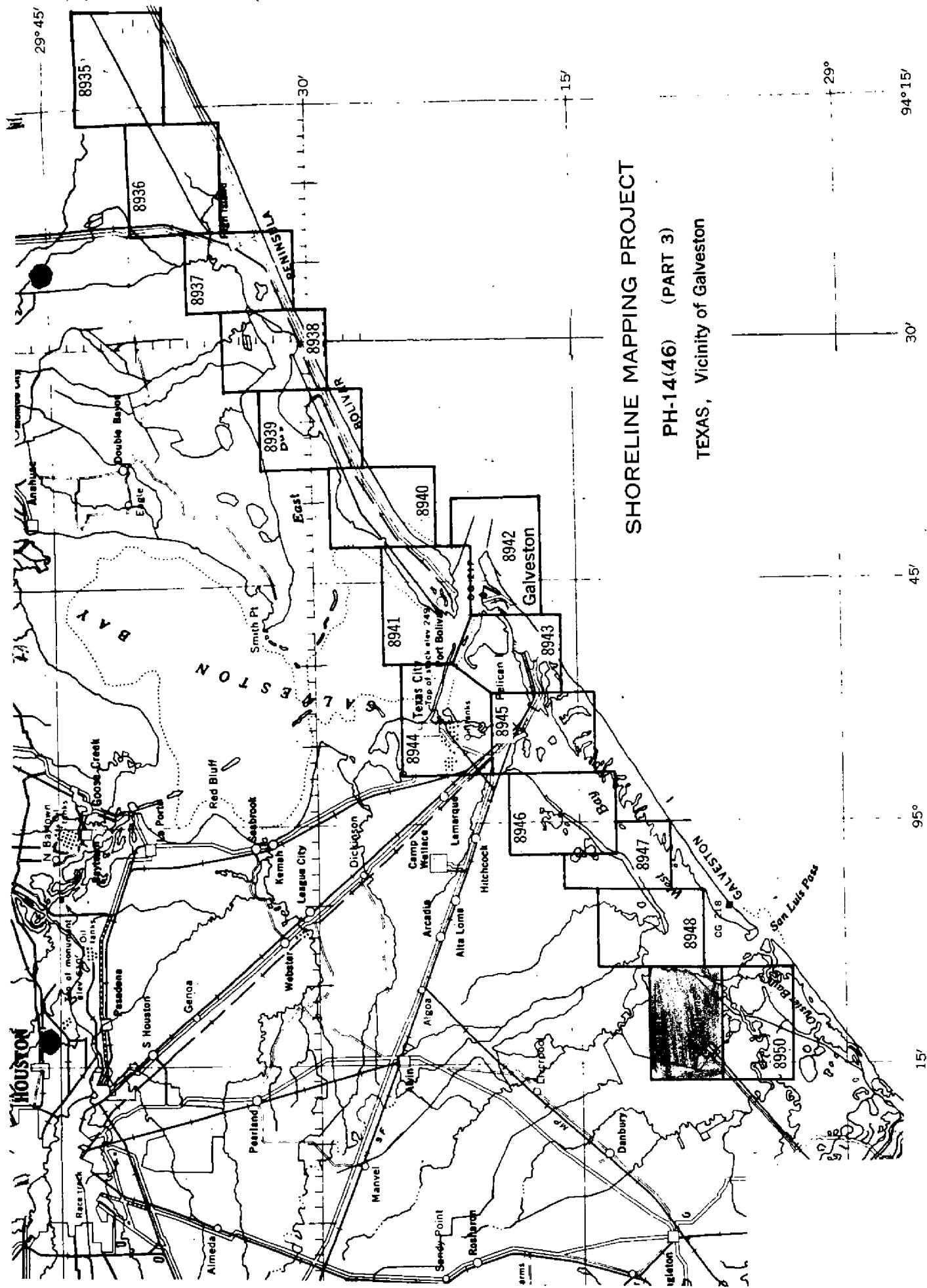
Number of Triangulation Stations searched for (II): 5      Recovered: 3      Identified: 3

Number of BMs searched for (II):      Recovered:      Identified:

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III): none

Remarks:





## COMPILATION REPORT

T - 8949

### FIELD INSPECTION REPORT

Refer to Special Report, Project Ph-14(46), Gulf Intracoastal Waterway, Port Arthur, Texas, to Cedar Lakes, Texas, submitted by Ross A. Gilmore, dated January 1948.

### PHOTOGRAMMETRIC 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 nonfloating 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-8940 are the limits of the project. Junction has been made with T-8948 to the northeast and with T-8950 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 11 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

*Harvey N. Nathan*  
Cartographer (photo)

Approved and forwarded  
12 October 1949

*Thos B. Rind*  
\_\_\_\_\_  
Officer in Charge  
Baltimore Photogrammetric  
Office

# NONFLOATING AIDS PRESENTATIONS FOR CHARTS

TO BE CHARTED  
16005005167052

**STRIKE OUT ONE**

**Baltimore, Maryland**

29 August 1949.

I recommend that the following objects which ~~have~~ *(have not)* been inspected from seaward to determine their value as landmarks, be charted on ~~(separate sheets)~~ the charts indicated.

The positions given have been checked after listing by

Joseph W. Vonasek

**Thos. B. Reed**  
*Chief of Party.*

[illegible]

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.



TO BE CHARTED  
~~TO BE DELETED~~

## NONFLOATING AIDS TO NAVIGATION FOR CHARTS

Washington, D. C. 20 Sept. 1950

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

The positions given have been checked after listing by **K. N. Makl**

**S. V Griffith** *Chief of Party.*

[illegible]

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- 8949

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

## CONTROL STATIONS

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

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline JW 13. Low-water line JW 14. Rocks, shoals, etc. JW 15. Bridges JW 16. Aids to navigation JW 17. Landmarks JW 18. Other alongshore physical features JW 19. Other along-shore cultural features JW

## PHYSICAL FEATURES

20. Water features JW 21. Natural ground cover JW 22. ~~Planetable contours~~ 23. ~~Stereoscopic instrument contours~~ 24. ~~Contours in general~~ 25. ~~Spot elevations~~ 26. Other physical features JW

## CULTURAL FEATURES

27. Roads JW 28. Buildings JW 29. Railroads JW 30. Other cultural features JW

## BOUNDARIES

31. ~~Boundary lines~~ 32. ~~Public land lines~~

## MISCELLANEOUS

33. Geographic names JW 34. Junctions JW 35. Legibility of the manuscript JW 36. ~~Discrepancy overlay~~ 37. Descriptive Report JW 38. Field inspection photographs JW 39. Forms JW 40. Joseph W. Vondra Joseph Steinberg  
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:

REMARKS

13, No LWL information was furnished.

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

*Joseph W. Vinasok*  
\_\_\_\_\_  
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°45'
- Hoskins Mound = 08°30' / 13°18'
- Intracoastal Waterway
- ✓ • Little Mounds = 08°10' / 12°15'
- ✓ • Lost Lake
- ✓ • Mud Island
- ✓ • Oyster Lake
- ✓ • Oyster Lake Bayou
- Oyster Lake Marsh = 08°40' / 12°
- ✓ • 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 approval)

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

Names preceded by • are approved. 9-14-50.  
L. H. Hark.

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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 national standards of accuracy. The map as a whole fulfills project instructions and is adequate for 1:40,000 scale nautical charts.

67. Control.-Triangulation station Hartrick (USE) 1906 was plotted on the manuscript by review. Its position as shown on Form M-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 Intra-coastal 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:

Howard J. Murray  
Howard J. Murray

APPROVED

S. V. Griffith  
Chief, Review Section HRB-11/29/51  
Div. of Photogrammetry

McEdmon  
Chief, Nautical Chart Branch  
Division of Charts

O. S. Reading  
Chief, Div. of Photogrammetry

W. M. Seafie  
Chief, Div. of Coastal Surveys

## NAUTICAL CHARTS BRANCH

SURVEY NO. 8949

### Record of Application to Charts

[illegible]

M.2168-1

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.