Descriptive Report

Type of Survey: Shoreline

Field No.: Ph-76(51), Office No.: T-9920

Locality:
State: Texas
General locality: Houston Ship Channel
Locality: Atkinson Island to Hog Island

1952

Chief of Party:
P.L. Bernstein, Chief of Field Party
J.E. Waugh, Tappan Photo Office, Fla.

Library & Archives
Date: March 31, 1952
DATA RECORD

T -9920

Project No. (II): Ph-76 (51)  Quadrangle Name (IV):

Field Office (II): Houston, Texas  Chief of Party: P. L. Bernstein
Photogrammetric Office (III): Tampa, Fla.  Officer-in-Charge: J. E. Waugh

Instructions dated (II) (III): 21 November 1951  Copy filed in Division of

Method of Compilation (III): Graphic

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

Scale Factor (III): None

Date received in Washington Office (IV): JAN 19 1954

Applied to Chart No. Date:

Publication Scale (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): M.H.W.  Mean sea-level except as follows:

Elevations shown in feet refer to mean high water
Elevations shown in meters refer to sounding datum

Mean low water or mean lower low water --

Reference Station (III): MORGAN PT. 2, 1931

Lat.: 29°40'15.731" (1592.8m)  Long.: 94°59'08.942" (240.4m)  Adjusted

Plane Coordinates (IV):  Unadjusted

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)
(I) (II) (III)
DATA RECORD

Field Inspection by (II): J. A. Clear, Jr.
W. H. Shearouse

Date: June 1952

Planetable contouring by (II): Not applicable.

Date:

Completion Surveys by (II): L. F. Woodcock

Date: 26 April 1955

Mean High Water Location (III) (State date and method of location):

June 1952
Air Photo Compilation

Date:

Projection and Grids ruled by (IV): Jack Allen (W.O.)

Date: 29 Oct. 1952

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

Date: 30 Oct. 1952

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

Date: 28 Jan. 1953

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

Date: 30 Jan. 1953

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

Date: 18 Sept. 1953

Stereoscopic Instrument compilation (III):

Planimetry

Contours

Date:

Manuscript delineated by (III): R. Dossett

Date: Nov. 1953

Photogrammetric Office Review by (III): W. H. Shearouse

Date: 7 Jan. 1954

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

Inapplicable

Date:
Fairchild Cartographic Camera "0"

Camera (kind or source) (III): 6" Metrogon lens

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<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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Camera "W"
54-W - 3180 to 3187, incl. 19 Oct. 1954 1:30,000
54-W - 3200 to 3208, incl.

Tide (III)
Reference Item 7

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<th>Spring Range</th>
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Reference Station:
Subordinate Station:
Subordinate Station:

Washington Office Review by (IV): [Signature]

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 3
Shoreline (More than 200 meters to opposite shore) (III): 10
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): 26 Recovered: 8 Identified: 7
Number of BMs searched for (II): 5 Tidal Recovered: 1 Identified: 1
Number of Recoverable Photo Stations established (III): 10
Number of Temporary Photo Hydro Stations established (III):

Remarks:

Date: 12 March 1954
15 April 1957
SHORELINE MAPPING PROJECT PH-76
TEXAS, Houston to Galveston Bay (Buffalo Bayou)

Compiled at scale 1:10,000 from 1:24,000 scale single-lens photographs taken May 1951
(Refer to Air-Photo Indexes 99-E and 99-F)
SUMMARY TO ACCOMPANY T-9920
HOUSTON SHIP CHANNEL, TEXAS

Project PH-76 (51) consists of seven map manuscripts, 1:10,000 scale, which delineate the shoreline and the inland area for one-half mile each side of the Houston Ship Channel from Galveston Bay to the city of Houston.

T-9920 covers the Houston Ship Channel where it enters Galveston Bay at Morgan Point and Atkinson Island.

After smooth drafting and printing a cronar film positive of the map and the Descriptive report will be registered and filed in the Bureau Archives.

This project was initiated in late 1951 and photographs taken in May 1952. The field inspection was completed in June 1952 and the maps compiled at the Tampa Office in November 1953.

When the maps were applied to the charts in March 1954, it was felt that the photogrammetric location of range lights was not as accurate as desired due to lack of control, consequently additional field work was done and the maps revised as follows:

New photography was taken in October 1954. LT Lorin F. Woodcock as Chief of Party between December 1954 and the early part of 1955 located most of the aids to navigation and field edited the project making notes on the new 1954 photographs.

The maps were then revised at the Tampa Office. All the additional triangulation was plotted and map details corrected from the 1954 photographs and field edit notes made thereon.

When all the maps of the project have been thus registered, and filed in the library, a Completion Report for the project will be written. It will describe the project as to purpose, reports, and records turned in and filed.
FIELD INSPECTION REPORT IS BOUND WITH T-9915
Field Edit Report is bound with Completion Report
PHOTOGRAMMETRIC PLOT REPORT.

This report was submitted with T-9915.

31. **DELINEATION.**

The graphic method was used.

Due to insufficient photographic coverage, the southernmost portion of ATKINSON ISLAND has not been delineated. Given an "approximate" delineation during review.

The scale of the photographs was good.

Field inspection was adequate.

32. **CONTROL.**

The control was adequate. Placement and density was good.

33. **SUPPLEMENTAL DATA.**

None.

34. **CONTOURS AND DRAINAGE.**

Contouring inapplicable.

Drainage has been delineated as shown on the photographs and from field inspection notes.

35. **SHORELINE AND ALONGSHORE DETAILS.**

All shoreline details apparent on the photographs and additional details indicated by the field inspector have been delineated.

The shoreline inspection was adequate.

36. **OFFSHORE DETAILS.**

None.
37. **LANDMARKS AND AIDS.**

It is noted that while all the aids were identified in 1952 on photographs flown in 1951, two (2) were moved in 1952 and one (1) in 1953. The aids involved are:

LIGHT 66 (moved in 1953)

LIGHTS 69 and 70 (moved in 1952)

GALVESTON BAY CHANNEL, LIGHTS 61 and 62, are not shown due to insufficient photographic coverage. Attention is also called to LIGHT 61A (GALVESTON BAY CHANNEL) noted in the 1953 Light List. Entered on list in approximate position 175. N041, 1954.

The difference between FRONT and REAR RANGE LIGHTS as shown on the map manuscript and in the 1953 Light List are as follows:

<table>
<thead>
<tr>
<th>LIGHT</th>
<th>1953</th>
<th>1952</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bearings</td>
<td>Distance</td>
<td>Bearings</td>
</tr>
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<td>---MANUSCRIPT---</td>
<td>---LIGHT LIST---</td>
<td>---LIGHT LIST---</td>
</tr>
<tr>
<td>Bearings</td>
<td>Distance</td>
<td>Bearings</td>
</tr>
</tbody>
</table>

GALVESTON BAY
HOUSTON SHIP CHANNEL
-RANGE D FRONT & REAR LIGHTS
127° 21' 468 129° 400

RANGE B FRONT & REAR LIGHTS
146° 53' 130 146° 125

*Note in Mariner's No. 10 Jan 1953: Lights discontinued; structure for front light removed; "Leading Light B" established on rear structure.

Aids to navigation were identified on the 1954 photography or located by field methods.

A direct radial plot was resorted to in the southern portion of Atkinson Island because of extensive shoreline changes and doubtful positions of lights.

See also Special Report "Landmarks for Charts" bound with Completion Report.
38. CONTROL FOR FUTURE SURVEYS.

Twelve (12) Forms 524 are being submitted herewith. Two (2) of them do not show a geographic position because of a lack of photographic coverage. Four (4) stations have been listed under Item 49. Those not listed are non-floating aids to navigation surrounded by water.

39. JUNCTIONS.

A satisfactory junction has been made with T-9919 on the north and 3/4 minute of T-9918 on the west. There is no contemporary survey to the south or east.

40. HORIZONTAL AND VERTICAL ACCURACY.

Vertical accuracy inapplicable.

The southern delineated portion of ATKINSON ISLAND is controlled by two-cut detail points.

46. COMPARISON WITH EXISTING MAPS.

Comparison has been made with U. S. Corps of Engineers Topographic Quadrangle MORGAN POINT, scale 1:31,680, compiled in 1943, and the Army Map Service copy of the above at a scale of 1:25,000.

Except for changes in shoreline due to dredging and filling, no outstanding discrepancies were noted.

Comparison was made with USCGS Topographic Survey, HOUSTON SHIP CHANNEL, REGISTER NO. 4641, scale 1:5,000, dated December 1930. Since the MORGAN POINT topographic quadrangle is of more recent date, the discrepancies noted have not been listed.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison has been made with USCGS Nautical Chart No. 588, scale 1:10,000, published January 1937, and corrected to October 5, 1951.

The shoreline in general shows no outstanding changes other than those noted in Item 46.
Attention is called to the following offshore details noted on the chart and not recovered by field inspection:

File - awash at H.W. - Latitude 29° 40' 5"

Longitude 94° 58' (approx.)

Broken piling, rock pile and pile, located in the vicinity of GALVESTON BAY CHANNEL, LIGHT 70.

These are not visible on the photographs.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Rudolph Dossett
Carto Photo Aid

APPROVED AND FORWARDED:

J. E. Waugh, Chief of Party
48. **GEOGRAPHIC NAME LIST.**

- **ATKINSON ISLAND**
- **BAYRIDGE PARK**
- **BARBOUR CUT**
- **CEDAR BAYOU CHANNEL**
- **CLIFFS YACHT BASIN**
- **GALVESTON BAY**
- **HOG ISLAND**
- **HOUSTON SHIP CHANNEL**
- **MORGAN POINT**
- **PRINCE GREEN YACHT BASIN**
- **SAN JACINTO BAY**

**TEXAS**

**TEXAS 146**

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*Names approved 3-12-54. H. Heck*
49. **NOTES FOR THE HYDROGRAPHER.**

The following recoverable topographic stations will be of use to the hydrographer:

- **HOUSTON SHIP CHANNEL, RANGE B FRONT LIGHT, 1952, 1955**
- **HOUSTON SHIP CHANNEL, RANGE B REAR LIGHT, 1952, 1955**
- **COUNTY WHARF LIGHT 1, 1952, 1955**
- **COUNTY WHARF LIGHT 3, 1952, 1955**
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by

Rudolph Dassett, Carto Photo Aid

J. E. Waugh, Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>TEXAS</th>
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<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
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<tr>
<td>GALVESTON BAY</td>
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<tr>
<td>HOUSTON SHIP CHANNEL</td>
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<tr>
<td>X RANGE B, FRONT LIGHT</td>
<td>29 40 44.98 94 58 42.21 H.N.A. Radial Plot</td>
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<tr>
<td>X RANGE B, REAR LIGHT</td>
<td>29 40 44.70 94 58 39.66 1927 T-9920 1952 X X 588</td>
</tr>
<tr>
<td>X RANGE D, FRONT LIGHT</td>
<td>29 41 41.23 94 58 59.68 1603</td>
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<tr>
<td>X RANGE D, REAR LIGHT</td>
<td>29 41 41.72 94 58 47.10 1268</td>
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<tr>
<td>X COUNTY WHARF LIGHT 1</td>
<td>29 40 51.31 94 58 55.32</td>
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<tr>
<td>X COUNTY WHARF LIGHT 3</td>
<td>29 40 52.91 94 58 3.57</td>
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<td>GALVESTON BAY CHANNEL</td>
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<tr>
<td>(HOUSTON CHANNEL BEACON)</td>
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<td>X LIGHT 69</td>
<td>29 40 17.23 94 58 44.29 Rad. Plot T-9920 1952 X X</td>
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<td>X LIGHT 66</td>
<td>29 39 65.92 94 58 7.66</td>
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<td>X LIGHT 65</td>
<td>29 39 74.79 94 58 206</td>
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X for 1955 positions see page 14.
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<td>94 58</td>
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<td>SOURCE OF INFORMATION</td>
<td>DATUM</td>
<td>LATITUDE OR y-COORDINATE</td>
<td>LONGITUDE OR x-COORDINATE</td>
<td>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</td>
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<td>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</td>
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<td>00 + 00 (7009 (USB), 1955</td>
<td>HOU. SH, Ch. Pg 5</td>
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<td>29</td>
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<td>58</td>
<td>46.364</td>
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<td>HOUSTON SH, CHANNEL RANGE C, EXTENSION, 1955</td>
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<td>41</td>
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<td>94</td>
<td>58</td>
<td>55.823</td>
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1 ft. = 0.3048006 meter

COMPUTED BY: R. S. Tibbets
DATE: 3-7 Oct. 1955

CHECKED BY: R. R. Ballance
DATE: 17 Oct. 1955
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 Rudolph Dosselt, Carto Photo Aid.

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<th>Texas</th>
<th>Charting Name</th>
<th>Description</th>
<th>Signal Name</th>
<th>Position</th>
<th>Datum</th>
<th>Method</th>
<th>Date of Location</th>
<th>Harbor Chart</th>
<th>Chart Affects</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Cedar Bayou Channel</td>
<td>Daybeacon 6</td>
<td></td>
<td></td>
<td>29 41 11.59</td>
<td>94 58 27.56</td>
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<td></td>
<td>366 D.M. Meters</td>
<td>297 D.P. Meters</td>
<td>Radial</td>
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<td>Tequesta Bay</td>
<td>Channel light 61</td>
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<td>29 37 14 12.2</td>
<td>95 57 123.8</td>
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<td>Plot</td>
<td>1952 X X</td>
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<tr>
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<td>Channel light 62</td>
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<td>29 37 15 03.2</td>
<td>95 57 96.8</td>
<td>N.A.</td>
<td>Plot</td>
<td>1952 X X</td>
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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...
PHOTOGRAMMETRIC OFFICE REVIEW
T. 9920

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

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

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline WHS
13. Low-water line WHS
14. Rocks, shoals, etc. WHS
15. Bridges XX
16. Aids to navigation
17. Landmarks XX
18. Other alongshore physical features WHS
19. Other alongshore cultural features WHS

PHYSICAL FEATURES
20. Water features WHS
21. Natural ground cover WHS
22. Planetable contours XX
23. Stereoscopic instrument contours WX
24. Contours in general XX
25. Spot elevations XX
26. Other physical features WHS

CULTURAL FEATURES
27. Roads WHS
28. Buildings WHS
29. Railroads WHS
30. Other cultural features WHS

BOUNDARIES
31. Boundary lines XX
32. Public land lines XX

MISCELLANEOUS
33. Geographic names WHS
34. Junctions WHS
35. Legibility of the manuscript WHS
36. Discrepancy overlay XX
37. Descriptive Report WHS
38. Field inspection photographs WHS
39. Forms WHS

40. William H. Sheehouse
   William J. Rosene
   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:
61. General.—Because this project's maps are from field inspection of June 1952, Range B lights are retained on this map manuscript even though the front light was removed and the rear light became "Leading Light B" early in 1953.

The southern tip of Atkinson Island and Channel Lights 61 and 62 were added with approximate lines, even though no radial intersections could be made. The center of photograph 51-0-5673 fell sufficiently near the point to afford an image of good scale and the azimuth 51-c-5672/51-c-5673 placed its direction.

62. Comparison with Registered Surveys.—

T-4613 1:5,000, 1931 Cedar Bayou, Atkinson Island.
4614  " Morgan Point and vicinity.

Except for the contour on T-4614, T-9920 supersedes the older surveys for charting purposes.

63. Comparison with Maps for other Agencies.—


Except for the contours, the quadrangle is superseded by T-9920 for charting purposes.

64. Comparison with Contemporary Hydrographic Surveys.—No hydrographic surveys were made since the 1931 series H-5121 to 5128 incl., 1:5,000.

65. Comparison with Nautical Charts.—

588 1:10,000 Jan. 1937, rev. June 1951
1282 1:80,000 Feb. 1945, rev. Jan. 1953
(See also p. 14 of the Compilation Report)

Small piers charted at Morgan Point are not on T-9920 and are not visible on the photographs.

Atkinson Island has extended southward, by accretion of spoil, to approximately 29° 37.5' from 29° 39.25' since chart 1282 was set up.

The present survey supersedes the chart in their common areas and common detail.

66. Accuracy.—This map complies with project instructions and meets the National Standards of Accuracy except for the southern
end of Atkinson Island and lights 61 and 62 which were delineated by the approximate symbol during review.

Reviewed by:

Lena T. Stevens

APPROVED

La Lande
Chief, Review Branch
Div. of Photogrammetry

Chief, Div. of Photogrammetry
6 March 1955

Mayfield
Chief, Nautical Chart Branch
Division of Charts

Chief, Div. of Coastal Surveys.
# Nautical Charts Branch

**Survey No.: 7928**

## Record of Application to Charts

<table>
<thead>
<tr>
<th>Date</th>
<th>Chart</th>
<th>Cartographer</th>
<th>Remarks</th>
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<tr>
<td>3/14/54</td>
<td>588</td>
<td>S.M. Maclaren</td>
<td>Before After Verification and Review Before addition 50%</td>
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<tr>
<td>8-20-58</td>
<td>588</td>
<td>C.Q. Williamson</td>
<td>Before After Verification and Review Part applied</td>
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</tbody>
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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.