### 9919

Diag. Cht. Nos. 532 and 1282.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-76 (51) Office No. T-9919

### LOCALITY

State Texas

General locality Houston Ship Channel

Locality Hog Island to Goose Creek

### 19/1/5/1-52

CHIEF OF PARTY
P.L.Bernstein, Chief of Party (Field)
J.E.Waugh, Tampa Photo. Office, Fla.

LIBRARY & ARCHIVES

DATE March 31, 1958

B-1870-1 (1)

T-9919

Project No. (II): Ph-76 (51)

Quadrangle Name (IV):

Field Office (II): Houston, Texas

Chief of Party: P. L. Bernstein

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: J. E. Waugh

Instructions dated (II) (III): 21 November 1951

28 Dec. 1954 - 2 Febr. 1955

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV): JAN

5 1954 Date reported to Nautical Chart Branch (IV): 2-11-54

Applied to Chart No.

Date:

Date registered (IV): 19 Sept 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III):

Mean-sea level-except-as-follows:

Elevations shown as (25) refer to mean high water Elevations shown as  $(\underline{5})$  refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): PELLY MUNICIPAL TANK, 1931

Lat.: 29°43'21."302 (655.9 m.) Long.: 94°58'32."377 (870.2 m.) Adjusted

Plane Coordinates (IV):

State:

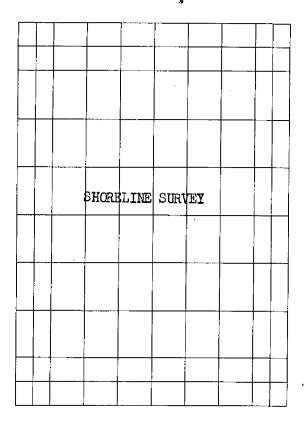
Zone:

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)

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

Date: June 1952

Planetable contouring by (II): Not applicable.

Date:

Completion Surveys by (II):

L.F. Woodcock
Inapplicable

Date: 26 April 1955

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

Air Photo Compilation June 1952

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

Date: 30 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: 28 Jan. 1953

Radial Plot or Stereoscopie

Control-extension-by (III): M. M. Slavney

Date:

18 Sept. 1953

Planimetry

Contours

Stereoscopic Instrument compilation (III): Ina

Inapplicable

Date:

Date:

Manuscript delineated by (III): R. A. Reece

Date: 20 Nov. 1953

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

Date: 12 Dec. 1953

**Elevations on Manuscript** 

checked by (t) (III):

Inapplicable

Date:

### Camera (kind or source) (III): Fairchild Cartographic Camera "0" 6" focal length

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
51-0-5667 5668	4 May 1951	0908	1:10,000	Inapplicable
5669 5670	tt H	0909 0910	11	
51-0-5678	11	0919	11	
5679	amera "W"	0920	T .	
SAF OUT -	3/99 A, & C	2 4 19	Oct. 1954 1	:30000
54-W-1	8209 to 3212	ind.		

Tide (III)

Reference Item 7

Reference Station:

Subordinate Station:

Subordinate Station:

Washington Office Review by (IV): Ze

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Remarks:

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III):

Shoreline (Less than 200 meters to opposite shore) (IH):

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II):

None Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): None

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

Ratio of Mean | Spring Range Range Ranges

Date:

Date:

Date:

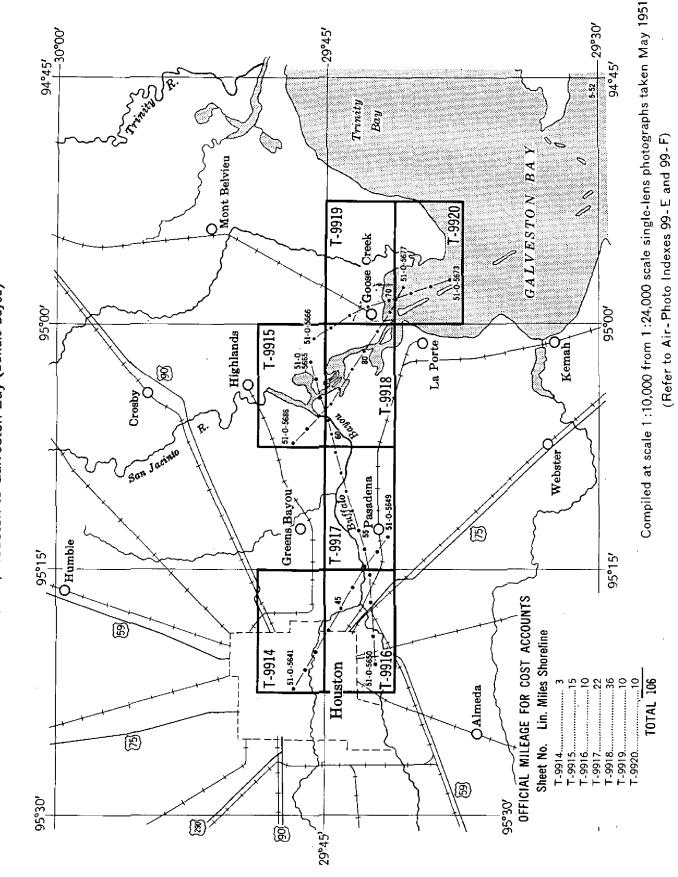
10 Statute Linear Miles

Recovered:

Recovered:

6 Identified: Identified:

## SHORELINE MAPPING PROJECT PH-76 TEXAS, Houston to Galveston Bay (Buffalo Bayou)



### 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 WAS SUBMITTED

WITH T-9915
Field Edit Report (with Completion Report)

### COMPILATION REPORT T-9919

### PHOTOGRAMMETRIC PLOT REPORT.

This report submitted with T-9915.

### 31. <u>DELINEATION</u>.

The graphic method of compilation was used.

There are many new subdivisions. All that could be shown, using the photographs available, were delineated.

In some areas, photographic coverage permit ted only two cuts on detail points. These have been shown with a green circle.

Photographs were clear and of fairly good scale. Field inspection was adequate.

### 32. CONTROL.

An adequate number of well placed pass points were established for the cutting in of detail points.

### 33. SUPPLEMENTAL DATA.

None.

### 34. CONTOURS AND DRAINAGE.

Contours are inapplicable.

Drainage was delineated without any difficulty.

### 35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was adequate. No difficulty was encountered during the deline ation of the shoreline or adjacent areas. The shoreline of SAN JACINTO BAY was not field inspected and is shown according to office photo interpretation.

The low-water line is based on data furnished by the field party. Reference Item 7.

### 36. OFFSHORE DETAILS.

No unusual problems were encountered during compilation of details offshore from the high-water line.

### 37. LANDMARKS AND AIDS.

There are no landmarks.

Four (4) nonfloating aids have been listed on Forms 567 and 524. They are also listed under Item 49.

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

See also Special Report " Landmarks for Charts - bound with Completion Report

### 38. CONTROL FOR FUTURE SURVEYS.

None.

### 39. JUNCTIONS.

A satisfactory junction has been made with T-9918 on the west and T-9920 on the south.

Project limits are to the north and east.

### 40. HORIZONTAL AND VERTICAL ACCURACY.

Reference Item 31 relative to green circled detail points. Vertical accuracy is inapplicable.

### 41. BRIDGES.

Five (5) bridges have been shown. Three (3) were inspected in the field and clearances given. These bridges are over water navigable by small craft only.

See Item 14, page 11a. (7-9915)

### 46. COMPARISON WITH EXISTING MAPS.

Comparison was made with Army Map Service Quadrangle, MORGAN POINT (Sheet 7043 III N.W., Series V882), scale 1:25,000; copied in 1947 from the 1943 edition.

SAN JACINTO BAY has been separated from the HOUSTON SHIP CHANNEL and HOG ISLAND has been enlarged - both by spoil that has been deposited from dredging operations.

Another bridge and road are under construction near the mouth of GOOSE CREEK. No other major changes have taken place.

### 47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Nautical Chart No. 588, published January 1937 and corrected 16 November 1951.

After comparing the maps listed under Item 46, it is believed that much of the planimetry of the nautical chart was taken from it and the same differences appear.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Richard A. Reece Carto. Photo Aid

CHCHALIROH CIA CHUNGGGA

Le. Waugh, Chief of Party

DEPARTMENT OF COMMERCE

u. s. coast Ryd Geoberic Sirvey Arabi, Louisiana

POST OFFICE ADDRESS:

TELEGRAPH ADDRESS: 10 July 1952

EXPRESS ADDRESS:

Ph-16(51)

To:

District Engineer Galveston District

Corps of Engineers, U. S. Army 606 Santa Fe Building

Galveston, Texas

Subject: Bridge Data

There is enclosed a list of the bridge clearance data determined by this party.

> Percy L. Bernstein Commander, U.S.C.& G.S. Chief of Party

cc: The Director

### Mavigable to Skitts & Small Boats Only

Name	Type	Horizontal C&GS Meas.		Vertical C	STATE OF THE PARTY
GOOSE CREEK, TEXAS Highway	F	56.0	56.0	12,8	8.0 above H
Railroad	F	45.5	45.0	11.0	4.0 " "

Measurements were made at 1000 and 1015 respectively 3 July 1952.
Winds and rain water strongly influence vertical clearance and accurate comparison cannot be made.

comparison cannot be made.

\*List of Bridges Over The Navigable Waters of the United States revised to July 1, 1941 and Supplement thereto.

### 48. GEOGRAPHIC NAME LIST.

BAYTOWN

(Larger type on map, because Baytown now includes both Goose Creat & Pelly)

CALVERT CHURCH CEDAR BAYOU CHANNEL

DECKER DRIVE

EVERGREEN - PELLY ROAD EVERGREEN POINT

GALVESTON BAY
G. W. CARVER HIGH SCHOOL
GOOSE CREEK (COMMUNITY)
GOOSE CREEK (STREAM)

HILL OF REST CEMETERY HOG ISLAND HOUSTON SHIP CHANNEL

MARKET STREET ROAD
MEMORIAL STADIUM
MISSOURI PACIFIC RAILROAD
MT ROSE CHURCH

NEW HOPE CHURCH

PELLY <

ROBERT E. LEE HIGH SCHOOL

ST JOHN CHURCH
ST PAUL CHURCH
SAN JACINTO BAY
SOUTHERN PACIFIC RAILROAD
SPILMANS ISLAND
SPIRITUAL TEMPLE CHURCH
STATE 146

TABBS BAY TEXAS

W. MAIN STREET W. TEXAS AVENUE WOODRUFF STREET These are sections of Baylown which is the main city.

Names approved 3-10-54. LHECK

### 49. NOTES FOR THE HYDROGRAPHER.

The following topographic stations may be of use to the hydrographer:

HOUSTON CHANNEL, RANGE A REAR LIGHT, 1952 /1955
HOUSTON CHANNEL, RANGE F REAR LIGHT, 1952 /1955
CEDAR BAYOU, CHANNEL LIGHT 14, 1952

OGRAMMETRIC REVIEW BRANCH Form 567 PH April 1945

### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

# NONFLOATING AIDS ORLEANDMARKS FOR CHARTS

TO BE CHARTED TO BE DELETED

STRIKE OUT ONE

Tampa Photogrammetric Office, Tampa, Pla.

October 1953

arks be		Chief of Party.		CHARTS		588								13	
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been inspected from seaward to determine their value as landmarks be		-		DATE	LOCATION	1952	=			8	8				
rmine their		. E. Wauch	METHOD	LOCATION	SURVEY No.	Plot T-9919				•	=				
to deter	D.	7			DATUM	N.A.	#	*	*	*					
seaward	Photo Ai			LONGITUDE *	" D. P. METERS	3.61	14.99		46.76	39.62	53,37				
sted from			POSITION	LONG		94, 59	94 59		94 59	94 59	94, 57				
een inspec	A.Reece, Carto		4	LATITUDE*	" II D. M. METERS	21.21	25.50		56.58	1709	18,12				
ve mon b	The state of the	*		LATIT		29 41	29 41		20 1.1	29 41	29 41				
have (ha	Richard				SIGNAL								101		
I recommend that the following objects which have (have anot) charted on (deleted from) the charts indicated.  The positions given have been checked after listing by			THE PRINCES	And Street or	AME DESCRIPTION	HAINEL, RANGE A, FRONT LIGHT	HANNEL, RANGE A, REAR LIGHT		MAINISTON BAY - HOUSTON SHIP MANNEL, RANGE F, FRONT LIGHT	MANUSIS, RANGE P, REAR LIGHT	HANNEL LIGHT 14		X for 1955 positions see page 13		
I recommend that the following charted on (deleted from) the char The positions given have been			STATE PEXAS	200	CHARTING DESCRIPTION NAME	XCHANNEL, RANGE A, FRONT I	X CHANNEL, RANGE A, REAR LI		X CHANNEL, RANGE F, FRONT I	X CHANNEL, RANGE F, REAR L.	· 7		for		

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

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

FORM **164** (4-23-54)

OMMERCE COAST AND GEODETIC SURVEY REPORT

FACTOR DISTANCE FROM GRID OR PROJECTION LINE COMM- DC-57843 (BACK) IN METERS FORWARD SCALE FACTOR FROM GRID OR PROJECTION LINE IN METERS 75.6) (BACK) 88,5 (1758,9) 654,4 (1193,0) 98.0 (1515.2) 403,8 (1209,1) 1250,8)( 362,1) 1253,8 ( 359,1) 1561.0 ( 51.9) 1223,3 ( 624,1) 969.0 ( 643.7) 1554,6 ( 292,8) 1373.2 ( 474.2) 722.2 (890.8) 1741,9 ( 105,5) 1706.9 ( 140.5) 547.9) N.A. 1927-DATUM DISTANCE 1065,1 ( 1771.8 FORWARD DATUM CORRECTION 1:10,000 OR PROJECTION LINE IN METERS SCALE OF MAP DISTANCE FROM GRID IN FEET. (BACK) FORWARD LONGITUDE OR x - COORDINATE 58,067 LATITUDE OR y - COORDINATE 21,253 39,729 50,492 15,022 44.599 46,640 55,438 02.874 36,051 26,865 57,545 46,529 39,620 03.644 56,574 Ph-76 42 5,4 59 42 59 59 50 59 41 41 41 59 41 47 59 PROJECT NO... 8 8 20 3 20 \$ \$ 3 83 8 8 8 3 \$ DATUM N.A. 1927 \$ 8 z 8 SOURCE OF INFORMATION (INDEX) HOU.SH. CH.Pg 3 RANGE A, FRONT LIGHT, " Pg 5 Pg. 6 Pg 6 RANGE F, FRONT LIGHT, Pg. 6 Pg 6 PR 2 RANGE A, REAR LIGHT HOUSTON SH, CHANNEL, RANGE A, EXTENSION RANGE B, BXTENSION, HOUSTON SH.CHANNEL HOUSTON SH. CHANNEL 9919 HOUSTON SH, CHANNEL HOUSTON SH, CHANNEL HOUSTON SH. CHANNEL RANGE B, EXTENSION, RANGE F, REAR LIGHT HOUSTON SH. CHANNEL EVERGREEN 2, 1955 MAP T. STATION 1955 1955 1955 1955 1955

DATE 17 Oct. 1955

CHECKED BY. E. R. Ballance

3-7 Oct. 1955

DATE.

1FT. = 3048006 WETER COMPUTED BY. R. S. Tibbetts

M-2623-12

50.

43. Remarks:

### PHOTOGRAMMETRIC OFFICE REVIEW

### T- 9919

1. Projection and grids J.G. 2. Title J.G. 3. Manuscript number	rs <u>J.G.</u> 4. Manuscript size <u>J.G.</u>
CONTROL STATIONS  5. Horizontal control stations of third-order or higher accuracy M.M.S.  than third-order accuracy (topographic stations) J.G. 7. Photo hydros  9. Plotting of sextant fixes XX 10. Photogrammetric plot report J	stations XX 8. Bench marks J.G.
ALONGSHORE AREAS  (Nautical Chart Data)  12. Shoreline J.G. 13. Low-water line XX 14. Rocks, shoals, etc to navigation J.G. 17. Landmarks XX 18. Other alongshore physhore cultural features J.G.	_
PHYSICAL FEATURES 20. Water features $J \cdot G \cdot 21$ . Natural ground cover $J \cdot G \cdot 22$ . Plan instrument contours $XX$ 24. Contours in general $XX$ 25. Sp features $J \cdot G \cdot G$	
CULTURAL FEATURES 27. Roads $J_\bullet G_\bullet$ 28. Buildings $J_\bullet G_\bullet$ 29. Railroads $J_\bullet G_\bullet$ 30.	Other cultural features
BOUNDARIES  31. Boundary lines XX 32. Public land lines XX	•
MISCELLANEOUS  33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of overlay XX 37. Bescriptive Report J.G. 38. Field inspection photographic names A. Giles Will Reviewer	T C T O
41. Remarks (see attached sheet)	
FIELD COMPLETION ADDITIONS AND CORRECTIONS  42. Additions and corrections furnished by the field completion survey has manuscript is now complete except as noted under item 43.	
Compiler	Supervisor

See also Supplemental Review Report
Review Report
Shoreline Map T-9919
10 March 1954

62. Comparison with Registered Surveys.T-4614 1:5,000 1931 Morgan Point and vicinity
T-4615 " Spilmans Island and vicinity
Except for the contour, these maps are superseded by
T-9919 for charting purposes.

63. Comparison with Maps of Other Agencies .-

AMS Quad. Morgan Point, Texas, 1:25,000, 1949

The present survey supersedes the quadrangle for shoreline, aids, and those cultural features one-half mile inland noted by the field inspector.

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

65. Comparison with Nautical Charts .-

588 1:10,000 ed. Jan. 1937, rev. June 1951

Atkinson Island to Alexander Island. Because of extensive changes in the area, the present survey supersedes the charts for shoreline, aids, and cultural and physiographic features within the half-mile mainland limit covered by the 1952 field inspection.

The following charted obstructions were not noted by the field inspector, but may still exist.

- 1. Four piles between Hog Island and the Ship Channel
- 2. A group of five piles south of the Channel in that area.

Carry

- 3. A group of piles in Tabbs Bay
- 4. A line of piles at 29° 42'/ 95° 59½'
- 5. Two snags north of Cherry Bayou Channel.

66. Accuracy. - The map conforms to project instructions and meets the National Standards of Map Accuracy.

Reviewed by:

Lena T. Stevens

ŒJ.

APPROVED

Div. of Photogrammetry

Chief, Div. of Photogrammetry

6 March 1958

Chief, Nautical Chart Branch Division of Charts

Chief, Div. of Coastal Surveys ....

### NAUTICAL CHARTS BRANCH

survey no. <u>79919</u>

### Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
3/19/50	+ 588	89 Me Gann	Hefore After Verification and Review Before and wa.
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8-20-58	588	CR. Willman	Before After Verification and Review Part applied
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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.

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