

9918

Diag. Cht. No. 532.

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-9918

LOCALITY

State Texas

General locality Houston Ship Channel

Locality Barbour Cut to Buffalo Bayou

1951-52

CHIEF OF PARTY

P.L. Bernstein, Chief of Field Party

J.E. Waugh, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE May 23, 1958

8-1870-1 (1)

8169

DATA RECORD

T-9918

Project No. (II): **Fh-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
Photogrammetry (IV)

28 Dec. 1954 - 2 Febr. 1955

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): *1-15-54* 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): **M.H.W.**

~~"Mean sea level except as follows:
"Elevations shown as (25) refer to mean high water
"Elevations shown as (26) refer to sounding datum
"i.e., mean low water or mean lower low water"~~

Reference Station (III): **PATRICK, 1931**

Lat.: **29° 44' 10".028 (308.8m)** Long.: **95° 07' 02".667 (71.7m.)**

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.

DATA RECORD

Field Inspection by (II): W. M. Reynolds
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):

24 June 1952
Air Photo Compilation

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

Date: 24 Nov. 1952

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

Date: 25 Nov. 1952

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

Date: 26 Jan. 1953

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

Date: 27 Jan. 1953

Radial Plot or ~~Stereoscopic~~

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

Date: 18 Sept. 1953

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Inapplicable

Date:

Date:

Manuscript delineated by (III): I. I. Saperstein

Date: 7 Dec. 1953

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

Date: 5 Jan. 1954

Elevations on Manuscript

checked by *dy* (III): Inapplicable

Date:

Camera (kind or source) (III): Fairchild Cartographic Camera "0" - 6" Metrogon lens

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
51-0-5660 to		0858 to		
5664 incl.	4 May 1951	0902 incl.	1:10,000	Negligible
5665	"	0902	"	"
5666 to		0907 to		
5669 incl.	"	0910 incl.	"	"
5670	"	0910	"	"
5671	"	0911	"	"
5678	"	0919	"	"
5679	"	0920	"	"
5680 to				
5684 incl.	"	0921	"	"

54-W-3158 to 3161
 54-W-3173 " 3177
 54-W-3188 " 3190 and 3199 } 19 Oct. 1954 1:30 000
 Tide (III)

Reference Item 7

Ratio of Ranges	Mean Range	Spring Range

Reference Station:
 Subordinate Station:
 Subordinate Station:

Washington Office Review by (IV):

Laura F. Stevens
W. Sheffer

Date: 8 March 1954
 15 April 1957

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 16
 Shoreline (More than 200 meters to opposite shore) (III): 36
 Shoreline (Less than 200 meters to opposite shore) (III): 1.5
 Control Leveling - Miles (II): None
 Number of Triangulation Stations searched for (II): 68
 Number of BMs searched for (II): None
 Number of Recoverable Photo Stations established (III): 36
 Number of Temporary Photo Hydro Stations established (III): None

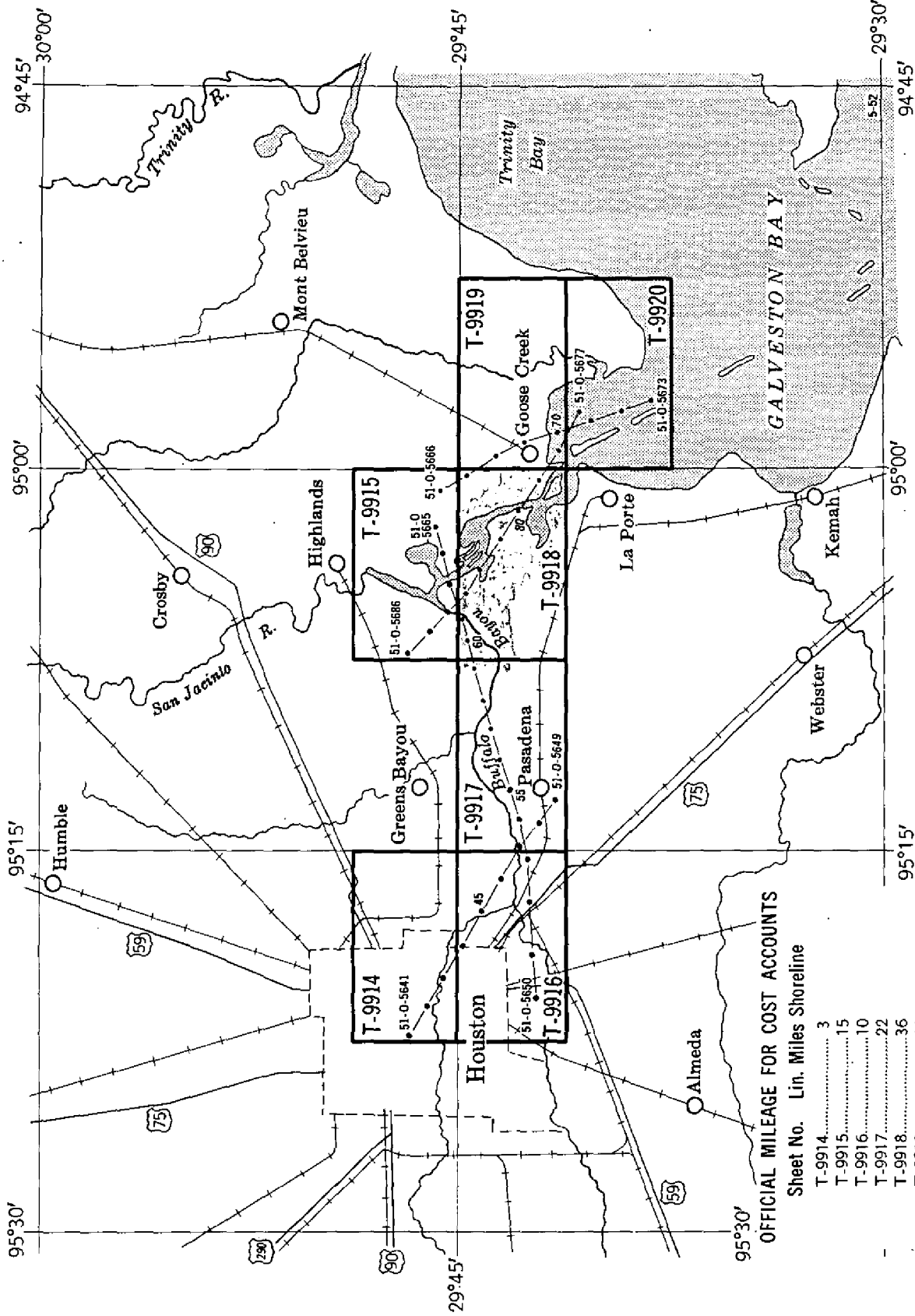
Recovered: 20
 Identified: 22*
 Recovered:
 Identified:

Remarks:

* 2 R.M's recovered and identified.

SHORELINE MAPPING PROJECT PH-76

TEXAS, Houston to Galveston Bay (Buffalo Bayou)



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No. Lin. Miles Shoreline

T-9914	3
T-9915	15
T-9916	10
T-9917	22
T-9918	36
T-9919	10
T-9920	10
TOTAL	106

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-9918

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-9918 extends from Black Bay westward to the vicinity of Patrick Bayou.

After smooth drafting ^{a crown} ~~and printing, a cloth back~~ copy of the map and the descriptive report will be registered and filed in the Bureau Archives.

When all the maps of the project have been thus registered, a Completion Report for the whole project will be written. It will describe the project as to purpose, report and records turned in and filed.

FIELD INSPECTION REPORT IS BOUND WITH T-9915

Field Edit Report bound with Completion Report

COMPILATION REPORT T-9918PHOTOGRAMMETRIC PLOT REPORT.

This report was submitted with T-9915.

31. DELINEATION.

The graphic method of compilation was used.

The field inspection was generally good and no difficulty was encountered during delineation. The map manuscript was extended 45 seconds south of the limits shown on the project layout to take in Barbour Bayou. There is no field inspection in this area but a careful stereoscopic examination failed to show anything unusual and it is believed that the delineation is adequate and complete.

The scale of the photographs ranges from fair to good.

It was impossible to obtain three cuts through some detail points and nonfloating aids due to lack of photographic coverage. These detail points are shown with a $2\frac{1}{2}$ mm green circle. The aids have been shown in the usual manner with a green circle around them.

32. CONTROL.

Sufficient pass points were established whose identification, placement and density were adequate for cutting in detail points.

33. SUPPLEMENTAL DATA.

None.

34. CONTOURS AND DRAINAGE.

Contouring inapplicable.

Drainage was delineated as shown by the photographs and field inspection notes.

35. SHORELINE AND ALONGSHORE DETAILS.

The mean high-water line was delineated as shown on the photographs by the field inspector. The shoreline inspection was generally good and complete except for the area of Barbour Bayou mentioned in Item 31.

Although tides are negligible in this part of the Houston Ship Channel, the approximate low-water line was delineated on the manuscript as shown on the field photographs. See Item 7.

36. OFFSHORE DETAILS.

No unusual offshore delineation problems were encountered.

37. LANDMARKS AND AIDS.

All landmarks have been reported on Form 567. *Ch. L. No 35, 1952*

A list of ranges showing bearings and distances in comparison with the 1953 Light List follows:

<u>Range</u>	<u>Bearing</u>	<u>Distance</u>	1953 Light List	
			<u>Bearing</u>	<u>Distance</u>
C	308° 38'	215 yds	309° 1'	200 yds
* E	280 31 20	296	280 30-	250
G	00 40 96	361	00	370
H	180 50 26	263	180	260
I	342 30 55	483	342	475
J	302 45 38	190	301	200
K	275 36	559	275	550
L	94 39 6	390	95	385
M	291 26 21	434	290	435
N	110 58 21	267	110	295
O	307 40 30	300	308	330
** P	128 34 31	314	128	355
R	147 28 38	535	147	485
T	164 04 14	467	164	490
V	146 10 30	273	146	275

*Notice to Mariners dated 19 December 1953 shows HOUSTON SHIP CHANNEL, RANGE E FRONT AND REAR LIGHTS, have been reestablished.

**Notice to Mariners dated 3 October 1953 shows HOUSTON SHIP CHANNEL, RANGE P REAR LIGHT, has been moved and reestablished on shore.

It is noted that HOUSTON SHIP CHANNEL, LIGHTS 64 and 69, were identified by direct marking on the 1951 photographs whereas the 1953 Light List shows that they were moved or rebuilt in 1952.

The POINT on RANGE K as plotted on the manuscript did not line up exactly on the range. The bearing was therefore shown to the nearest degree.

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

*See also Special Report "Landmarks for Charts"
(with Completion Report)*

38. CONTROL FOR FUTURE SURVEYS.

Thirty-six (36) topographic stations have been established and Form 524 submitted for each. They are listed under Item 49, with the exception of one (1) Azimuth Mark and eighteen (18) aids to navigation surrounded by water.

* A discrepancy exists between Form 524 and Form 526 for the description of DAVIS AZIMUTH MARK. The discrepancy is in the distance from the station to the road. However, the station was cut in radially and checks with the distance given on Form 524.

** Form 526 corrected
to agree with # 524
JJS*

39. JUNCTIONS.

A satisfactory junction has been made with the following sheets:

T-9915 to the north
T-9917 to the west
T-9919 to the east
T-9920 to the southeast

There is no contemporaneous survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY.

In certain areas of the map manuscript, only two cuts were obtained due to lack of photographic coverage. Reference Item 31.

Vertical accuracy inapplicable.

46. COMPARISON WITH EXISTING MAPS.

A comparison has been made with LA PORTE Quadrangle 6943 II NE, published by the Army Map Service, scale 1:25,000, edition of 1947, reprinted in 1949.

Streets and roads not shown on the above map were delineated on the map manuscript to the limits of photographic coverage, even though these features were farther inshore than one-half mile.

Comparison has been made with the following 1:5,000, USC&GS 1931 topographic surveys:

4615 - 4616 - 4617 - 4618 - 4619

Many man-made changes have taken place so that these surveys are now completely obsolete.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison has been made with USC&GS Nautical Chart No. 588, scale 1:10,000, published January 1937 and corrected to June 11, 1951, and Chart No. 589 and No. 590, scale 1:10,000, published March 1952.

It is believed that the maps listed under Item 46 are the source of planimetry for the above charts (with some exceptions) and the same differences are noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

I. I. Saperstein
I. I. Saperstein
Carto Photo Aid

APPROVED AND FORWARDED:

E. Waugh
E. Waugh, Chief of Party

48. GEOGRAPHIC NAME LIST.ALEXANDER ISLANDBARBOUR ^{Cut} BAYOUBARNES ISLANDBATTLEGROUND ROADBAYTOWNBAYTOWN TUNNEL (under construction)BLACK DUCK BAYBLACKWELL PENINSULABRINSON POINTBUFFALO BAYOUCEDAR BAYOU-WOOSTER ROADCRYSTAL BAYDIAMOND ALKALI CORPORATIONE. I. DU PONT DE NEMOURS & COMPANYGOAT ISLANDHOG ISLANDHUMBLE CLUB GOLF COURSEHUMBLE OIL & REFINING COMPANYHOUSTON SHIP CHANNELMAIN AVENUEMAPLETON AVENUEMARKET STREET ROADMITCHELL BAYMONUMENT DRIVEPATRICK BAYOUPEGGY LAKEROHM & HAASSAN JACINTO BAYSAN JACINTO ORDNANCE DEPOTSAN JACINTO ORDNANCE DEPOT DOCKSSAN JACINTO RIVERSAN JACINTO STATE PARK

(not on this sheet, the one
in San Jacinto River)
o.k at lat = 42.1' / 950

48. GEOGRAPHIC NAME LIST (CONTINUED)SANTA ANA BAYOUSCOTT BAYSENS ROADSPILMANS ISLANDST. MARKS CHURCHST. MARY POINTSTATE 134STRANG ROADTEXASTUCKER BAYOUU. S. GOVERNMENT RAILROADWOOSTER

Names approved
3-9-54. L. Heck

49. NOTES FOR THE HYDROGRAPHER.

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

BAYTOWN BEND LIGHT, 1952, 1955

HUMBLE WHARF LIGHT, 1952 Pier 5, 1955

HOUSTON SHIP CHANNEL, RANGE C FRONT LIGHT, 1952, 1955

HOUSTON SHIP CHANNEL, RANGE C REAR LIGHT, 1952, 1955

HOUSTON SHIP CHANNEL, RANGE G REAR LIGHT, 1952, 1955

HOUSTON SHIP CHANNEL, RANGE I REAR LIGHT, 1952, 1955

HOUSTON SHIP CHANNEL, RANGES K AND R REAR LIGHT, 1952, 1955

HOUSTON SHIP CHANNEL, RANGE L REAR LIGHT, 1952, 1955

HOUSTON SHIP CHANNEL, RANGES T AND M REAR LIGHT, 1952, 1955

HOUSTON SHIP CHANNEL, RANGE N REAR LIGHT, 1952, 1955

HOUSTON SHIP CHANNEL, RANGE N FRONT LIGHT, 1952, 1955

HOUSTON SHIP CHANNEL, RANGE O REAR LIGHT, 1952, 1955

HOUSTON SHIP CHANNEL, RANGE P REAR LIGHT, 1952, 1955

HOUSTON SHIP CHANNEL, RANGE V REAR LIGHT, 1952, 1955

HOUSTON SHIP CHANNEL, RANGE V FRONT LIGHT, 1952, 1955

TANK, DIAMOND ALKALI CORPORATION, 1952

TOWER, 1952

A row of broken piling on USC&GS Nautical Chart No. 589 at approximate latitude $29^{\circ} 44' 10''$, longitude $95^{\circ} 01' 40''$ was not recovered by the field party and it should be ascertained if piling are still in existence. *Others not recovered:*

a line just east of the pipeline area; the overhead cable; and piers at Baytown.

TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Tampa Photogrammetric Office, Tampa, Fla. 7 Dec. 19 53

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

Irving I. Saperstein, Certo Photo
Aid

J. E. Maugh
Chief of Party.

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	CHARTS AFFECTED				
				LATITUDE*		LONGITUDE*				D.P. METERS	D.P. METERS	HARBOR CHART	INSHORE CHART	OFFSHORE CHART
				°	'	°	'							
TEXAS														
		GALVESTON BAY												
		HOUSTON SHIP CHANNEL												
X		RANGE C FRONT LIGHT		29	42	11.92	95 00	18.64	Radial Plot T-9918	June 1952	X		588	
X		RANGE C REAR LIGHT		29	42	15.85	95 00	24.48	"	"	X		"	
X		RANGE E FRONT LIGHT		29	42	10.04	95 01	04.05	Theod. T-9918	"	X		588	
X		RANGE E REAR LIGHT		29	42	11.66	95 01	13.91	Rad. Plot T-9918	"	X		509	
X		RANGE G FRONT LIGHT		29	43	49.98	95 01	12.28	"	"	X		"	
X		RANGE G REAR LIGHT		29	44	0.71	95 01	12.17	"	"	X		"	
X		RANGE H FRONT LIGHT		29	42	22	95 01	327	"	"	X		"	
X		RANGE H REAR LIGHT		29	42	19.49	95 01	13.73	"	"	X		"	
X		RANGE I FRONT LIGHT		29	43	600	95 01	369	"	"	X		"	
X		RANGE I REAR LIGHT		29	43	44.98	95 01	22.03	"	"	X		"	
X		RANGE J FRONT LIGHT		29	43	1385	95 01	592	"	"	X		"	
X		RANGE J REAR LIGHT		29	43	58.69	95 01	26.98	"	"	X		"	
X		RANGE K FRONT LIGHT		29	43	1807	95 01	725	"	"	X		"	
X		RANGE K REAR LIGHT		29	43	50.50	95 01	45.77	"	"	X		"	
X		RANGE L FRONT LIGHT		29	43	1555	95 01	1230	"	"	X		"	
X		RANGE L REAR LIGHT		29	43	53.46	95 01	51.24	"	"	X		"	
X		RANGE M FRONT LIGHT		29	43	1646	95 01	1377	"	"	X		19	

x for 1955 positions see pages 227 to 228

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED } STRIKE OUT ONE
TO BE DELETED }

Tampa Photogrammetric Office, Tampa, Fla. 7 Dec. 19 53

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

IRVING I. SIFERSTEIN, Carto Photo
Aid

J. E. WAUGH

Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
				LATITUDE *		LONGITUDE *								DATUM
				° ' "	D. M. METERS	° ' "	D. P. METERS							
	TEXAS													
		GALVESTON BAY												
		HOUSTON SHIP CHANNEL												
X		RANGE K FRONT LIGHT		29 43	52.16 1473 1606	95 02		U.S.A. 1927	June 1952	X		589		
X		RANGE K REAR LIGHT		29 43	53.69 1654 1653	95 03		12.17 327 381	"	X		"		
X		RANGE L FRONT LIGHT	(Same as RANGE I FRONT LIGHT)					"	"	X		509 588		
X		RANGE L REAR LIGHT		29 43	43.90 1354	95 01		08.74 235	"	X		"		
X		RANGE M FRONT LIGHT		29 44	07.25 1228 220	95 03		21.04 587 594	"	X		589		
X		RANGE M REAR LIGHT		29 44	11.82 364	95 03		35.69 959	"	X		"		
X		RANGE N FRONT LIGHT		29 43	44.30 1364	95 02		18.75 504	"	X		"		
X		RANGE N REAR LIGHT		29 43	41.47 1277	95 02		10.27 276	"	X		"		
X		RANGE O FRONT LIGHT		29 44	25.24 777	95 03		40.04 1076	"	X		"		
X		RANGE O REAR LIGHT		29 44	30.63 943	95 03		48.12 1293	"	X		"		
X		RANGE P FRONT LIGHT	(Same as RANGE K FRONT LIGHT)					"	"	X		"		
X		RANGE P REAR LIGHT		29 43	46.48 1434 60	95 02		44.61 1199	"	X		"		

X for 1955 positions see pages 22a to 22f

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED }
TO BE DELETED } STRIKE OUT ONE

Tampa Photogrammetric Office, Tampa, Fla. 7 Dec. 19 53

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The positions given have been checked after listing by
Irving I. Saportstein, Carto Photo Aid

J. E. Waugh Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE * ° ' "	LONGITUDE * ° ' "	DATUM	D.P. METERS						
	TEXAS												
	GALVESTON												
X	HOUSTON SHIP CHANNEL												
X	RANGE R FRONT LIGHT		(Same as RANGE R REAR LIGHT)	29 44	95 03	M.A. 1927	44.59	June 1952	X			589	
X	RANGE R REAR LIGHT		(Same as RANGE R FRONT LIGHT)	29 44	95 03	"	44.59	"	X			"	
X	RANGE V FRONT LIGHT		(Same as RANGE V REAR LIGHT)	29 44	95 03	"	44.59	"	X			"	
X	RANGE V REAR LIGHT		(Same as RANGE V FRONT LIGHT)	29 44	95 03	"	44.59	"	X			"	
X	RANGE T FRONT LIGHT		(Same as RANGE T REAR LIGHT)	29 44	95 03	"	44.59	"	X			"	
X	RANGE T REAR LIGHT		(Same as RANGE T FRONT LIGHT)	29 44	95 03	"	44.59	"	X			"	
X	LIGHT 64			29 44	95 06	"	11.31	"	X			589	
X	LIGHT 65			29 44	95 06	"	00.06	"	X			590	
X	LIGHT 67			29 44	95 06	"	19.05	"	X			"	
X	LIGHT 69			29 44	95 06	"	35.17	"	X			590	
X	LIGHT 70			29 44	95 07	"	05.77	"	X			"	
X	LIGHT 71			29 43	95 07	"	22.10	"	X			"	

X for 1955 positions see pages 22^a to 22^f

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED } STRIKE OUT ONE
TO BE DELETED }

Tempa Photogrammetric Office, Tampa, Fla. 7 Dec. 19 54

I recommend that the following objects which have ~~(note 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

Irving I. Saperstein, Carto Photo Aid

J. E. Waugh Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE * D. M. METERS	LONGITUDE * D. P. METERS	DATUM							
	TEXAS												
X		GALVESTON BAY		29 43	40.53 1248	95 01	21.47 577	N.A. 1927	Radial Plot T-9918	June 1952	X		588 589
		HOUSTON SHIP CHANNEL		29 43	38.39 1182	95 01	16.60 446	"	"	Oct. 1954	X		"
X		MITCHELL WHARF LIGHT Piers		29 43	30.50 939	95 01	23.44 630	"	"	"	X		"
		BAYTOWN BEND LIGHT		29 43	24.81 764	95 01	10.38 279	"	"	X	X		"
		BAYTOWN WHARF LIGHT Pier 1											

X for 1955 positions see pages 22^a to 22^f

MAP T. 9918

PROJECT NO. Pb-76

SCALE OF MAP

1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ϕ -COORDINATE LONGITUDE OR λ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
				FORWARD	(BACK)		FORWARD	(BACK)		
TUNNBL, 1955	Hou. Sh. Ch. Pg 2	N.A. 1927	29 42 25.967	95 00 51.283			799.5 (1047.9)			
			29 42 14.078	95 02 05.775			1378.5 (234.3)			
DUPONT, 1955	" Pg 2	"	29 42 42.849	95 00 16.311			433.5 (1413.9)			
			29 42 33.689	95 00 42.165			155.2 (1457.6)			
HARROP, 1955	" Pg 2	"	29 44 37.927	95 03 06.826			1319.3 (528.1)			
			29 44 30.964	95 04 21.992			438.4 (1174.3)			
BARNED, 1955	" Pg 3	"	29 42 30.964	95 04 21.992			1037.3 (810.1)			
			29 42 37.927	95 03 06.826			1133.4 (479.4)			
WOOSTER 2, 1955	" Pg 2	"	29 44 37.927	95 03 06.826			1167.8 (679.6)			
			29 44 30.964	95 04 21.992			183.4 (1428.8)			
PARK, 1955	" Pg 1	"	29 44 30.964	95 04 21.992			953.4 (894.0)			
			29 44 37.927	95 03 06.826			590.9 (1021.3)			
HOUSTON SH.CHANNEL RANGES F AND G EXTENSION, 1955	" Pg 7	"	29 42 10.408	95 01 12.726			320.5 (1526.9)			
			29 42 12.726	95 01 12.726			342.1(1270.8)			
HOUSTON SH.CHANNEL RANGE I, REAR LIGHT, Pg 9 1955	" Pg 9	"	29 43 58.766	95 01 26.891			1809.4 (38.0)			
			29 43 58.766	95 01 26.891			722.7 (889.8)			
HOUSTON SH.CHANNEL RANGE G, FRONT LIGHT, Pg 9 1955	" Pg 9	"	29 43 50.122	95 01 12.190			1543.3 (304.1)			
			29 43 50.122	95 01 12.190			327.6 (1284.8)			
HOUSTON SH.CHANNEL RANGE D, EXTENSION, Pg 7 1955	" Pg 7	"	29 42 11.468	95 00 19.781			353.1 (1494.3)			
			29 42 11.468	95 00 19.781			531.7 (1081.1)			
HOUSTON SH.CHANNEL RANGE E, FRONT, AND RANGE H, REAR LIGHT, 1955	" Pg 7	"	29 42 11.651	95 01 13.912			358.7 (1488.7)			
			29 42 11.651	95 01 13.912			374.0 (1238.9)			
									22	
										1.0

MAP T. 9918 PROJECT NO. Ph-76 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
HOUSTON SH.CHANNEL RANGE E, REAR LIGHT, 1955	G. Pgs HOU. SH. CH. Pg 7	N.A. 1927	29 42 13,058 95 01 22,645				402.1 (1445.3) 608.7 (1004.1)		
HOUSTON SH.CHANNEL RANGE C, FRONT LIGHT, 1955	" Pg 6	"	29 42 11,986 95 00 18,929				369.0 (1478.4) 508.8 (1104.0)		
HOUSTON SH.CHANNEL RANGE C, REAR LIGHT, 1955	" Pg 7	"	29 42 15,934 95 00 24,499				490.6 (1356.8) 658.6 (954.3)		
600 + 00 (455D)(USB), 1955	" Pg 22	"	29 44 30,283 95 06 28,234				932.4 (915.0) 758.7 (853.6)		
653 + 00 (405L)(USB), 1955	" Pg 23	"	29 44 07,016 95 07 21,090				216.0 (1631.4) 566.8 (1045.6)		
622 + 00 (455L)(USB), 1955	" Pg 23	"	29 44 25,167 95 06 50,944				774.9 (1072.5) 1369.0 (243.3)		
576 + 54.80 (405R)(USB), 1955	" Pg 22	"	29 44 41,236 95 06 03,754				1269.7 (577.7) 100.9 (1511.4)		
577 + 54.80 (455L)(USB), 1955	" Pg 22	"	29 44 44,161 95 06 12,985				1359.7 (487.7) 348.9 (1263.3)		
HOUSTON SH.CHANNEL RANGE U, EXTENSION, 1955	" Pg 13	"	29 44 55,676 95 03 43,847				1714.3 (133.1) 1178.1 (434.0)		
HOUSTON SH.CHANNEL RANGE G, REAR LIGHT, 1955	" Pg 9	"	29 44 00,772 95 01 12,125				23.8 (1823.6) 325.8 (1286.6)		
HOUSTON SH.CHANNEL RANGE H, FRONT LIGHT, 1955	" Pg 8	"	29 42 19,536 95 01 13,862				601.5 (1245.9) 372.6 (1240.2)		
HOUSTON SHIP CHANNEL RANGES I AND L, FRONT LIGHT, 1955	" Pg 9	"	29 43 44,967 95 01 22,065				1384.6 (462.8) 593.0 (1019.5)		22 16

MAP T-9918 PROJECT NO. Ph-76 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y - COORDINATE LONGITUDE OR x - COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
			FORWARD	(BACK)	FORWARD	(BACK)		FORWARD	(BACK)	
HOUSTON SH.CHANNEL RANGE I, EXTENSION, 1955	G.P.S. HOU. SH. Ch. Pg 8	N.A. 1927	29 43	00.857				26.4	(1821.0)	
HOUSTON SH.CHANNEL RANGE J, FRONT LIGHT, 1955	" Pg 10	"	29 01	06.612				177.7	(1435.0)	
HOUSTON SH.CHANNEL RANGE J, REAR LIGHT, 1955	" Pg 10	"	29 43	53.628				1558.0	(289.4)	
HOUSTON SH.CHANNEL RANGES K AND P, FRONT LIGHT, 1955	" Pg 11	"	95 01	45.764				1229.9	(382.6)	
HOUSTON SH.CHANNEL RANGES K AND R, REAR LIGHT, 1955	" Pg 11	"	29 43	53.720				1651.2	(196.2)	
HOUSTON SH.CHANNEL RANGE L, REAR LIGHT, 1955	" Pg 8	"	95 01	51.177				1375.3	(237.1)	
HOUSTON SH. CHANNEL RANGES M AND R, FRONT LIGHT, 1955	" Pg 11	"	29 43	52.419				1614.0	(233.4)	
HOUSTON SH.CHANNEL RANGES M AND T, REAR LIGHT, 1955	" Pg 12	"	95 02	53.166				1428.8	(183.7)	
HOUSTON SH.CHANNEL RANGE M, EXTENSION, 1955	" Pg 10	"	29 43	53.720				1654.0	(193.4)	
HOUSTON SH.CHANNEL HUMBLE WHARF, LIGHT 1955	" Pg 9	"	95 03	11.931				320.6	(1291.8)	
HOUSTON SH.CHANNEL BAYTOWN BEND, LIGHT 1955	" Pg 8	"	29 43	44.052				1356.4	(491.0)	
			95 01	08.756				235.3	(1377.2)	
			29 44	07.173				220.9	(1626.5)	
			95 03	21.853				587.3	(1025.1)	
			29 44	11.915				366.9	(1480.5)	
			95 03	35.669				958.5	(653.8)	
			29 43	39.747				1223.8	(623.6)	
			95 02	01.877				50.4	(1562.1)	
			29 44	46.280				1425.0	(422.4)	
			95 06	10.519				282.6	(1329.6)	
			29 43	40.598				1250.0	(597.4)	
			95 01	21.385				574.7	(1037.8)	
			29 43	30.382				935.5	(911.9)	
			95 01	23.658				635.8	(976.7)	

1 FT. = .3048006 METER

COMPUTED BY: R. S. Tibbets

DATE 3-7 Oct. 1955

CHECKED BY: I. I. Saperstein

DATE 17 Oct. 1955

COMM-DC-57843

MAP T. 9918

PROJECT NO. Pb-76

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX) G. P. #	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
						DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	
HOUSTON SH. CHANNEL RANGES Q AND L, EXTENSION 1955	HOUSTON SH. CH. 11 Pg 11	N.A. 1927	29 43 52.377 95 03 09.563			1612.7 (234.7)	257.0 (1355.5)	
HOUSTON SH. CHANNEL RANGE P, REAR LIGHT, 1955	" Pg 10	"	29 43 42.595 95 02 38.668			1311.5 (535.9)	1039.2 (573.3)	
HOUSTON SH. CHANNEL RANGE O, EXTENSION, 1955	" Pg 10	"	29 43 40.342 95 02 33.342			1242.1 (605.3)	896.1 (716.4)	
HOUSTON SH. CHANNEL RANGE O, REAR LIGHT, 1955	" Pg 12	"	29 44 31.358 95 03 49.131			965.5 (881.9)	1320.2 (292.1)	
HOUSTON SH. CHANNEL RANGES O AND T, FRONT LIGHT, 1955	" Pg 12	"	29 44 25.240 95 03 40.022			777.1 (1070.3)	1075.5 (536.8)	
HOUSTON SH. CHANNEL RANGE N, EXTENSION, 1955	" Pg 11	"	29 44 09.061 95 03 30.446			279.0 (1568.4)	818.2 (794.2)	
HOUSTON SH. CHANNEL RANGE N, REAR LIGHT, 1955	" Pg 10	"	29 43 41.484 95 02 10.052			1277.3 (570.1)	270.1 (1342.4)	
HOUSTON SH. CHANNEL RANGE N, FRONT LIGHT 1955	" Pg 10	"	29 43 44.021 95 02 17.436			1355.4 (492.0)	468.6 (1143.9)	
HOUSTON SH. CHANNEL, RANGE P, EXTENSION, 1955	" Pg 12	"	29 44 30.345 95 03 49.256			934.3 (913.1)	1323.6 (288.7)	
HOUSTON SH. CHANNEL LIGHT 71, 1955	" Pg 17	"	29 43 58.478 95 07 22.104			1800.5 (46.9)	594.0 (1018.4)	
HOUSTON SH. CHANNEL RANGE H, EXTENSION, 1955	" Pg 9	"	29 43 58.980 95 01 13.282			1816.0 (31.4)	356.9 (1255.5)	
HOUSTON SH. CHANNEL RANGE J, EXTENSION, 1955	" Pg 8	"	29 43 31.274 95 01 11.213			962.9 (884.5)	301.4 (1311.2)	42

1 FT. = 3048006 METER

COMPUTED BY R. S. Tibbets

DATE 3-7 Oct, 1955

CHECKED BY I. I. Saperstein

DATE

17 Oct 1954

MAP T-9918 PROJECT NO. Ph-76 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
DEER PARK, HOUSTON PIPE LINE, RADIO MAST, 1955	G.P. 8 HOU. SH. CH. Pg 19	N.A. 1927	29 42 52.469 95 05 39.562				1615.5 (231.9) 1063.4 (549.4)		
DEER PARK, LIBRIZOL CO., TANK (ELEV.) 1955	" Pg 19	"	29 43 12.247 95 06 54.316				377.1 (1470.3) 1459.9 (152.8)		
LAPORTE, HOUSTON LIGHTING AND POWER TANK (ELEV.) 1955	" Pg 11	"	29 43 34.698 95 03 29.128				1074.5 (772.9) 782.8 (829.7)		
LAPORTE, HUMBLE OIL CO., RADIO MAST, 1955	" Pg 20	"	29 42 07.370 95 02 54.800				226.9 (1620.5) 1473.1 (139.8)		
REBER, 1955	" Pg 8	"	29 44 04.518 95 01 21.232				139.1 (1708.3) 570.6 (1041.8)		
HOUSTON SH. CHANNEL LIGHT 65, 1955	" Pg 16	"	29 44 32.874 95 06 08.904				1012.2 (835.2) 239.3 (1373.0)		
HOUSTON SHIP CHANNEL LIGHT 67, 1955	" Pg 16	"	29 44 23.916 95 06 19.571				736.4 (1111.0) 525.9 (1086.4)		
HOUSTON SH. CHANNEL LIGHT 69, 1955	" Pg 16	"	29 44 20.142 95 06 34.870				620.2 (1227.2) 937.0 (675.3)		
HOUSTON SH. CHANNEL LIGHT 70, 1955	" Pg 17	"	29 44 20.544 95 07 03.785				632.5 (1214.9) 101.7 (1510.6)		
HOUSTON SH. CHANNEL RANGE V, FRONT LIGHT, 1955	" Pg 13	"	29 44 54.783 95 03 44.490				1686.8 (160.6) 1195.4 (416.7)		
HOUSTON SH. CHANNEL RANGE V, REAR LIGHT, 1955	" Pg. 12	"	29 44 48.001 95 03 39.345				1478.0 (369.4) 1057.2 (555.0)		
HOUSTON SH. CHANNEL RANGE S, EXTENSION, 1955	" Pg 12	"	29 44 12.737 95 03 34.800				392.2 (1455.2) 935.2 (677.2)	22 10	

1 FT. = 3048006 METER

COMPUTED BY: R. S. Tibbetts

DATE 3-7 Oct, 1955

CHECKED BY: I. I. Saperstein

DATE 17 Oct, 1955

COMM-DC-57043

NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE DELETED

STRIKE OUT ONE

Tampa Photogrammetric Office, Tampa, Fla. 7 Dec. 1953

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

The positions given have been checked after listing by

Irving I. Saperstein, Carto photo
Aid

I. R. Laugh Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE * ° ' "	LONGITUDE * ° ' "	DATUM	D. P. METERS						
FLORIDA	TANK	red and white checkered on 4 skeleton steel legs (San Jacinto Ordnance Depot) ht=127' (160') SAN JACINTO ORDNANCE PLANT, FIELDS WATER TANK, 1952		29 44	82 07	U.S. 1927	05.14 138.1	1952				590	
	TANK	Steel, silver colored, (at Diamond Alkali Chem. Corp.) ht=150' (185')		29 43	95 06	"	37.25 1001	June 1952				"	
	TOWER	Observation tower, skeleton steel ht=35' (30')		29 43	95 01	"	27.87 749	"				500-589 1282	
	TANK	Steel, white (at Dupont Chem. Co.) ht=156' (186')		29 41	95 02	"	08.35 224.5	1952				589 1282	
	MONUMENT	Granite ht=578' (605') SAN JACINTO BATTLEFIELD MONUMENT, 1942		29 44	95 04	"	49.785 1337.7	1942				23	

NONFLOATING LANDMARKS FOR CHARTS

**TO BE CHARTED
TO BE DELETED**

STRIKE OUT ONE

Tampa Photogrammetric Office, Tampa, Fla. 7 Dec. 1953

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

The positions given have been checked after listing by

**Irving I. Saperstein, Carto Photo
A14**

J. E. Traugh
Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE*		LONGITUDE*		DATUM							
				D. M. METERS	° ' "	D. P. METERS	° ' "								
TOWER	TEXAS	skoloton steel, transmission tower ht=225' (228') BAYTOWN, NE TRANSMISSION TOWER, 1931		29 43	50.359 1550.0	95 01	30.812 020.1	H.A. 1927	Triang	1931	X X			589-589 1282	
TOWER	TEXAS	skoloton steel, transmission tower ht=225' (228') BAYTOWN, SW TRANSMISSION TOWER, 1931		29 43	40.144 1236.0	95 01	40.407 1005.9	"	"	"	X X			"	
TANK	TEXAS	steel, silver colored ht=130' (162') BAYTOWN, SILVER WATER TANK, 1931		29 43	49.173 1514.0	95 00	24.025 645.7	"	"	"	X X			589 1282	
														24	

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating

See also Supplemental Review Report with T-9914

Review Report
Shoreline Map T-9918
8 March 1954

61. General.-All fixed aids and ranges were tested during review. It was necessary to make many changes. All the range pairs are paralalled, but the Q-R range lines are not 100 feet apart as the light list specifies. Forms 524 and 567 have been corrected.

62. Comparison with Registered Surveys.-

T-4615	1:5,000	1931	Spilmans Id. and vicinity
4616	"	"	Alexander Id. and vicinity
4617	"	"	Vic. Peggy Lake and Scott Bay
4618	"	"	Lynchburg and vicinity
4619	"	"	Tucker Bayou to Greens Bayou

Except for the contour on T-4618 and 4619, these maps are superseded by T-9918 for charting purposes.

63. Comparison with Maps of Other Agencies.-

AMS Quad.	LaPorte, Texas,	1:25,000,	1949
"	"	Deepwater "	1:31,680 1943

The present survey supersedes the quadrangles 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
589	1:10,000, Mar. 1952 (1st ed):	Alexander Island to Carpenter Bayou
590	1:10,000, Mar. 1952 (1st ed):	Carpenter Bayou to Houston.

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

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

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED

L. C. Lande

Chief, Review Branch
Div. of Photogrammetry

Chief J. Gull

Chief, Div. of Photogrammetry

Max B. Piletto

Chief, Nautical Chart Branch
Division of Charts

J. Gull

Chief, Div. of Coastal Surveys

