

### 8945

Picje Che. No. 1282

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey Photogrammetric Shoreline

Field No. Office No. Office No.

LOCALITY

State Texas

General locality Gulf Coast Intracoastal
Waterway

Locality West Bay to Offatt Bayou

1947.....

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE December 19,1951

B-1870-1 (I)



### DATA RECORD

- 8945

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, Md.

Officer-in-Charge:

Thos. B. Reed

Instructions dated (II) (III):

Copy filed in Division of

Photogrammetry (IV)

(Not dated); Supplement 1, 22 July 1947

Letters dated 5 June 1947, 29 July 1947, and

4 February 1949

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):/0-3-49 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date: Aug. 1/1751

Date registered (IV): 20 Nov. 1451

Publication Scale (IV):

Publication date (IV): --

N. A. 1927 Geographic Datum (III):

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):

JONES, 1933

29° 17' 45.097" (1388.5m) Long.: 94° 55' 27.644 (746.1)

Adjusted DOKAGOOSKAGX

Plane Coordinates (IV):

State:

Texas

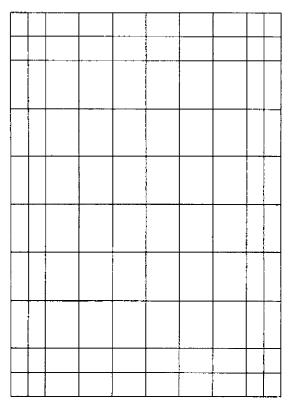
Zone: South Central

Y= 554,391.47

X= 3,298,766.43

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**

8/18/47 to 10/31/47 Date: Field Inspection by (II): Charles H. Bishop Date: Planetable contouring by (il): Completion Surveys by (II): Date: Mean High Water Location (III) (State date and method of location): Same as date of photographs supplemented by field inspection Projection and Grids ruled by (IV):  $W_{\bullet}E_{\bullet}W_{\bullet}$ 1/6/49 Date: W.E.W. 1/6/49 Projection and Grids checked by (IV): Date: M.F.Kirk Control plotted by (III): Date: J.Honick Control checked by (III): F. J. Tarcza 5/11/49 Date: M.F.Kirk 5/11/49 Date: Radial Plot an Stareoscopicx 6-22-49 XCONTROLLERS by (III): F.J. Tarcza **Planimetry** Date: Stereoscopic Instrument compilation (III): Contours Date: D.A.Maskell Manuscript delineated by (III): Date: 6/14/49 to 7/29/49 Photogrammetric Office Review by (III): J.W. Vonasek Date: 9/19/49 to 9/23/49

Elevations on Manuscript

checked by (II) (III):

Date:

Camera (kind or source) (III): U.S.C.& G.S. nine lens camera, focal length 84"

		PHOTOGRAPHS (I	II)	
Number	Date	Time	Scale	Stage of Tide
18412 18413	11/21/46	1439 1440	1:10,000	l.l above MLW

Tide (III)

Reference Station: Galveston, Galveston Channel

Subordinate Station: Galveston

Subordinate Station;

From Predicted Tide Tables
Washington Office Review by (IV):

1.0 1.0

Ratio of Mean | Spring |

Ranges

Date:

Date: / Sept. /950

Date: 7/25 5/

Range Range

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III)

Shoreline (More than 200 meters to opposite shore) (III): 38 statute miles Shoreline (Less than 200 meters to opposite shore) (III): 9 statute miles

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered: Recovered:

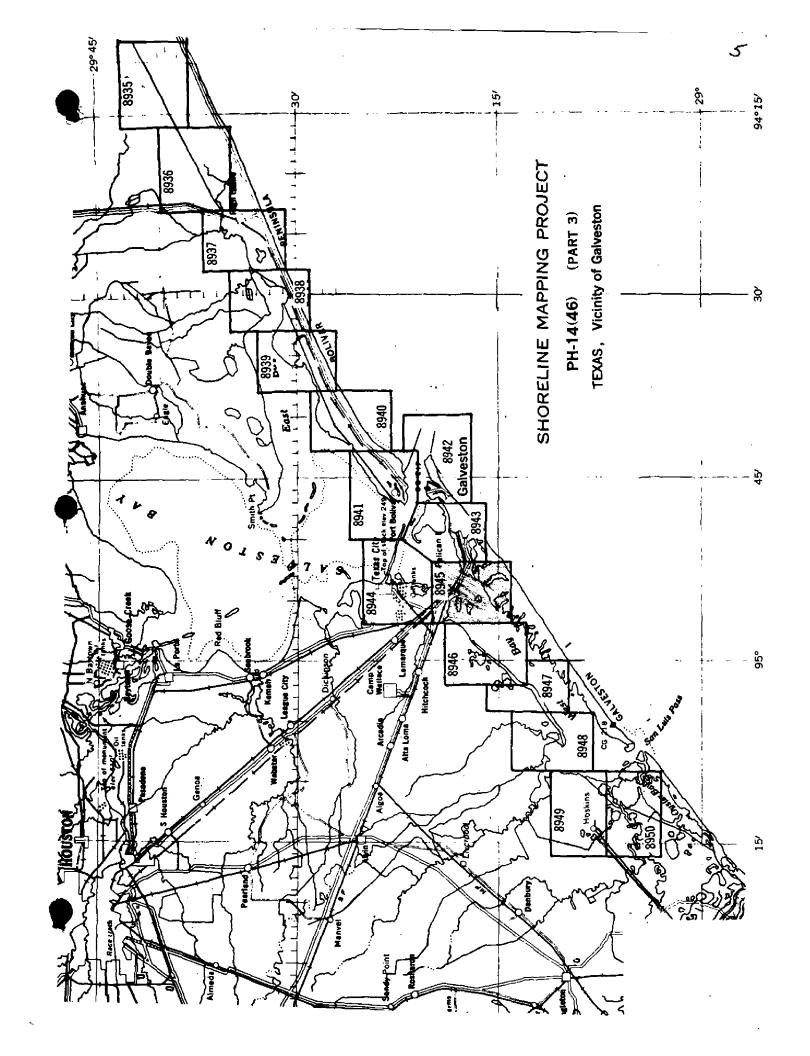
Identified: 3\* Identified:

Number of BMs searched for (II): Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

\* This includes WEST BAY 3 (USE) 1900 which is lost but RM 2 is identified.



### Summary to Accompany T-8945

Shoreline survey T-8945, scale 1:10,000 (Lat. 29°14' to 20', Long. 94°52' to 57') is one of 76 maps in project Ph-14(46), Intracoastal Waterway, which consists of four parts. This project was planned to furnish data for a new series of Inland Vaterway charts at 1:40,000 scale.

T-8945 is one of the Part III group, which includes the 16 maps T-8935 to T-8950, inclusive, vicinity of Galveston, Texas.

### Field Report Shoreline Manuscript T-8945

For field data covering survey T=8943, refer to the Special Report for project Ph-14(46), Locality of Port Arthur, Texas, to Cedar Lakes, Texas, submitted by Ross A. Gilmore, Chief of Party, January 28, 1948.

Chart Letter No. 84(1948). Filed in the Nautical Chart Branch, Division of Charts.

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STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LONGITUD	E OR y-CC	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
GALVESTON S.BASE	G-2122	N.A.	82	19	646.84			1507.0	340.3	
I no r		1-/-	70	54	50.193			1354.2	261.6	
FRANCE, 1933	G-2122		29	18	31,665			974.9	872.4	
	P 32		70	44	31.080			838.7	780.4	
	G-2122		29	17	45.097			1388.5	1,58.8	
JUNES, 1932	P 28		46	55	27.644			746.1	873.3	
	G-3873		29	17	48.229			1484.9	362.4	
E. CAUSEHAY TOWER.1931	P 95	=	76	53	07.150			193.0	-	
OFF4 1933	0010-0		29	16	19.372			596.4	172	
No F.	P 33	=	76	52	21.249			573.6	1046.1	
WEST BAY BN.	G-2122		29	15	10.090			310.7	1536.6	
No. 19, 1933	Pg. 38		76	56	58.730			1585.7	34.3	
VWEST BAY 3 (USE),	G-2122	=	29	15	03.577			110.1	1737.2	
1900 no. C.	rg 28		46	55	31.943			862.5	757.6	
1	G-2122 P 32		29	174	34.424			1059.8	787.5	
NASS, 1933			94	52	52.019			1404.7	215.5	
OTN 1033	Form 52%		29	18	15.655	Recov. Topo. Sta		482.0	136563	
GIN, 1770	74867		46	54	0.592		1	0.91	1603,3	
R.M.No. 2 **		*	29	15				86.8	1760.5	
WEST BAY NO. 3			76	55				972.3	8.749	
** This station c	domputed	by M.F.Kirk9	irk9 May	y 1943						3
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COMPUTED BY. J. Honick	ick	70	DATE	4/14/49	6	CHECKED BY: W.J. Hughes	Hughes		DATE 4/18	4/18/48 × 388-12
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WEST BAY, beacon   1	STATION	SOURCE OF INFORMATION (INDEX)		LATITUDE OR y-COOL			DATUM	N.A. 1927 - L DISTANCE FROM GRID OR PROJ IN METER	DATUM ECTION LINE IS (BACK)	
Mo. 15, 1933 % % %	NO. 11,	G-2122 Pg.38	N.A.	16		Sec for 567 (altached) p. 1			949.9	
WEST BAY, beacon	WEST BAY, beacon No.13, 1933 ***		=	16	97				1571.1	
No. 17,1933 ****         n         29         15         26.97         B27-3         1020.0           No. 17,1933 ****         n         9h         56         35,12         956.3         6636           ****         These stations computed by 10 **         ****         These stations computed by 10 **         ****         ****    ****  **** These stations computed by 0 ***         *****         *****         *****    ****  **** These stations computed by 0 ****         *****         *****         *****	WEST BAY, beacon		=	15	969				4324	
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### RADIAL PLOT REPORT

### PROJECT PH-14(46)

### SURVEYS T-8945 to T-8950, incl.

### AREA COVERED:

This radial plot covers the areas of Surveys T-8945, T-8946, T-8947, T-8948, T-8949, and T-8950, located along the Intracoastal Waterway from Galveston to Freeport, Texas. They form part of a series of shoreline surveys in Project PH-14(46).

### MAP MANUSCRIPTS

The acetate sheets furnished the compilation office for these surveys were ruled with polyconic projections and Texas South Central grids, at a scale of 1:10,000. No base sheets were furnished.

All control stations and substitute stations were plotted on the map manuscripts using beam compass and meter bar.

### **PHOTOGRAPHS**

The photographs used in this radial plot are all nine lens photographs, scale approximately 1:10,000, taken with the USC&GS nine lens camera, focal length 84 inches. Twenty-six photographs were used. They are numbered as follows:

18385 and 18386 18392 to 18415 inclusive.

The symbols for pass points and control stations used on these photographs are in accordance with Photogrammetry Instructions No. 12, dated 17 March 1947.

### TEMPLETS

Vinylite templets were made of all photographs using the master templet furnished by the Washington Office to correct for paper distortion and transforming errors.

### CLOSURE AND ADJUSTMENT TO CONTROL

Vinylite sheets previously used for another project, were used for this radial plot. Control stations and intersections of projection lines on the map manuscripts were transferred directly to the base sheets. The pass points and photograph centers from Survey T-8943 (1946) previously completed in the Washington Office, near the junction with the area of this radial plot, were also transferred to the base sheets. The templets for these photographs were laid first and the plot was extended southwesterly across surveys T-8945 and T-8946 without encountering any difficulty. In continuing the plot across Surveys T-8947, T-8948, T-8949 and T-8950, a satisfactory closure was not obtained. It was then decided, since the photographs Nos. 18393 and 18385

### CLOSURE AND ADJUSTMENT TO CONTROL (continued)

were controlled by stations SLOUGH, 1932, CLUTE, 1933, and LIGHT, 1927, to run northeasterly and tie with pass points previously established on Survey No. T-8946. It was found, however, that when the templet for photograph No. 18396 was laid, control stations RIDGE, 1933 and NUD ISLAND NORTH BASE (USE) 1906 could not be held by 2.5 mm. In checking the identification and pricking of the control stations in the area, no apparent errors were found, and in order to hold stations RIDGE and MUD ISLAND NORTH BASE (USE) 1906, it was necessary to let station CLUTE, 1933 fall off its plotted position. Although the identification of CLUTE was marked positive, misidentification of the reference points, of which there were several similar images in the vicinity of the station, was easily possible. The fact that the plot joined satisfactorily with the plot on T-5362 (1:20,000) (revised 1949) was considered as an additional check on disregarding CLUTE. The plots could not be made to join using the position of CLUTE as pricked by the field party.

In the area between photographs 18396 and 18405 there was only one fair control station, Sub Pt. MUD ISLAND N. BASE (USE) 1906, and that fell near the edge of several photographs. RULE, 1933 was identified as "doubtful" and appeared on only one photograph at the extreme edge. Therefore, it was disregarded. The Chocolate Bay Range A lights were identified by the field party but not as control. Positions from a planetable survey, T-4852 November 1947, were available and plotted. In the absence of any other control, an attempt was made to hold these. Both could not be held at the same time in the radial plot. After several attempts were made to bridge between the fixes on Surveys T-8946 and T-8950 holding one of these lights, it was decided that only the Front Range light could be held and obtain a fairly satisfactory radial plot.

### TRANSFER OF POINTS

The positions of all pass points and photograph centers were transferred to the map manuscripts by placing the manuscripts on the completed plot, matching common projection line intersections and pricking directly on the map manuscripts. The position of photograph center No. 18414 was moved about 1 mm northwest from the position of the previous plot. Since one more control station was available on that photograph in this radial plot, and it is a water center, the new position is believed more accurate.

### ADEQUACY OF CONTROL

There are thirty-eight (38) horizontal control stations within the area of this radial plot. Twenty-one of these have been identified by the field party. Of these, four were identified by use of a substitute point, one by pricking a reference mark, and the remainder identified direct.

Two of the stations could not be held in the radial plot.

### ADEQUACY OF CONTROL (Continued)

- -

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RULE, 1933 was identified as "Doubtful" by the field inspection party. It appeared on only one photograph on the extreme edge and was of no value in the radial plot.

CIUTE, 1933 was identified direct and "Positive". When its geographic position was held to form a fix at the end of the radial plot, it was impossible to extend the plot northward and hold any other control stations. A radially plotted position was established 2.4 mm northeast of the geographic position. An examination of the pricking and plotting revealed that it was in a marshy area devoid of readily identifiable objects. The position of the station in the direction of the error depended on the pricking of a small bush which, it is believed, could have been misidentified.

A sketch showing the distribution of control and photograph centers, and a list of control stations are attached to this report.

The control in Surveys T-8945, T-8946 and T-8950 was adequate. However, the area between these has almost no usable control. The only two identified stations in Survey T-8948 and in the larger part of adjoining surveys on both sides are graphic control points and both of these cannot be held at the same time in the radial plot. Another control station near these two, GATOR, 1933, was not identified but would have strengthened the plot considerably. The horizontal control in Surveys T-8947, T-8948 and T-8949 is considered inadequate for an accurate radial plot, when using a single photographic flight with center mostly over water.

### SUPPLEMENTAL DATA

It was necessary to use a planetable survey position of one of the Chocolate Bay Range A lights for control in the weak center area of this plot, due to absence of any identified control on Survey T-8948. Since both could not be held in the radial plot, attempts were made to hold each individually. Only with the Front Range Light was it possible to complete a fairly satisfactory plot. Holding this light the radially plotted position of CHOCOLATE BAY RANGE A REAR LIGHT falls 2.6 mm north of its geographic position. Without control in this area it is not possible to ascertain the cause of the discrepancy. No record was found to show that either light has been moved.

### PHOTOGRAPHY

The coverage, overlap and definition of photographs were adequate. However, the radial plot would have been strengthened considerably in the weak center area if the flight line had been further inland. Many photograph centers, particularly Nos. 18401 to 18404, incl. were in water areas and at least half of these photographs were entirely water areas. The flight lines were weak and unreliable making it necessary to depend on pass points entirely. Although there was evidence of some tilting in several

### PHOTOGRAPHY (Continued)

photographs, none was serious and it was impractical to make a tilt determination due to lack of control. The entire area is flat and the small tilt will not seriously affect the positions established in the plot. It was noted that there was considerable adjustment in Chamber No. 7 of all nine-lens photographs used. This was found to be due to transforming errors and believed to be corrected adequately by using the master templet. Chamber No. 2, adjoining No. 7, also showed evidence of transforming errors in most photographs.

Respectfully submitted

Frank J. Tarcza /

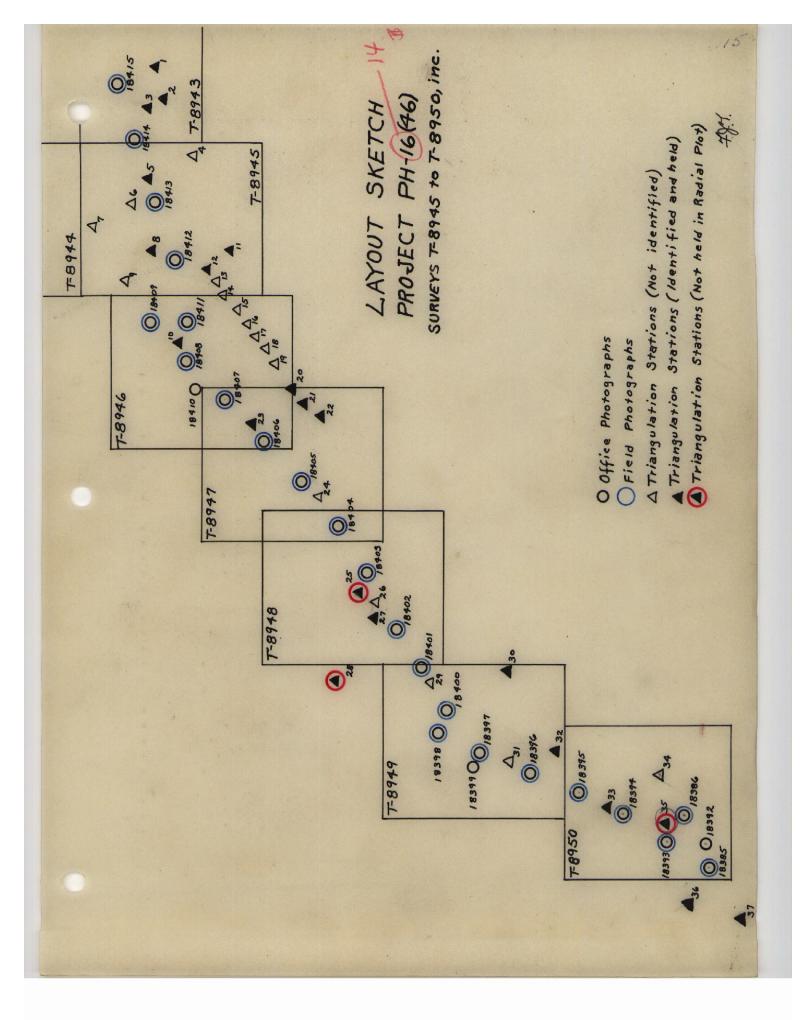
Cartographic Engineer

Approved and forwarded June 1949

Thos. B. Reed Officer in Charge

Baltimore Photogrammetric Office

No.	Station	Identification
1.	GALVESTON, COTTON CONCENTRATION CO. W.T., 1933	Direct
2.	GALVESTON, HIGH GRADE PACKING CO. W.T., 1933	Direct
	GALVEZ, 1933	By Sub. Pt.
3.	OFFATTS, 1933	None
5.	EAST CAUSEWAY TOWER, 1931	Direct
20	BASI GAUGENAI TONEM, 1991	DITOGO
6.	GIN, 1933 (Topo)	None
7.	GALVESTON, SOUTH BASE (USE) 1900	None
8.	JONES, 1933	Direct
9.	FRANCE, 1933	None
10.	HITCHCOCK, 1933	By Sub. Pt.
11.	WEST BAY 3 (USE) 1900	R.M. No. 2 pricked
12.	WEST BAY BEACON, No. 15, 1933	Pricked as beacon
13.	WEST BAY BEACON, NO. 17, 1933	None
14.	WEST BAY BEACON, NO. 19, 1933	None
15.	WEST BAY BEACON, NO. 21, 1933	None
.,	WEDOW DAY DRAGON NO OZ 1077	W
16.	WEST BAY BEACON, NO. 23, 1933	None None
	WEST BAY BEACON, NO. 25, 1933	None
	WEST BAY BEACON, NO. 27, 1933	None
19.	WEST BAY BEACON, NO. 29, 1933 WEST BAY BEACON, NO. 33, 1933	Direct
-0.	MEST DAT BEACON, NO. 57, 1999	Direct
20.	WEST BAY BEACON, NO. 2, 1933	Pricked as beacon
21.	WEST BAY BEACON, NO. 4, 1933	Pricked as beacon
22.	WEST BAY BEACON, NO. 37, 1933	Direct
23.	KARANKA, 1933	Direct
24.	CLAY, 1933	None
25.	CHOCOLATE BAY RANGE & REAR LIGHT, 1947	Pricked as light
26.	GATOR, 1933	None
27.	CHOCOLATE BAY RANGE A FRONT LT, 1947	Pricked as light
28.	RULE, 1933	Direct
29.	SULPHUR, 1933	None
	TOTALD MODELL DAGE (MOD) 100/	Por Corb D4
30.	MUD ISLAND NORTH BASE (USE) 1906	By Sub. Pt.
31.	BASTROP, 1933	None
32.	RIDGE, 1933	By Sub. Pt. Direct
33· 34·	SLOUGH, 1932	None
24.	WILL, 1933	None
35.	CLUTE, 1933	Direct
36.	LIGHT, 1927	Direct
100	WELL, (USE) 1912	Direct



### COMPILATION REPORT

T - 8945

### FIELD INSPECTION REPORT

For field data covering Survey T-8945 refer to the Special Report for Project Ph-14(46), Port Arthur, Texas, to Cedar Lakes, Texas, submitted by Ross A. Gilmore, Chief of Party, 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. (Attached hereto)

### 31. DELINEATION

The manuscript was delineated by graphic methods only. The shoreline south of 29°15' could not be delineated as accurately as desired because of poor picture coverage.

### 32. CONTROL

The identification, the density, and the placement of the horizontal control were adequate for satisfactory delineation of this survey. See the Radial Plot Report for T-8945 through T-8950, submitted by Frank J. Tarcza, 22 June 1949.

### 33. SUPPLEMENTAL DATA

Data in Form 250, Field Observations, Vols. 3 and 4 of 5 volumes, (Sextant Fixes), was used to plot the positions of the aids to navigation, and points on range.

The quadrangles listed in paragraph 46 of this report were furnished as geographic names standards.

### 34. CONTOURS AND DRAINAGE

Inapplicable.

### 35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

### 36. OFFSHORE DETAILS

Several obstructions located by the field party were plotted on the manuscript from positions listed on page 50 of the field report.

### 37. LANDMARKS AND AIDS

LANDMARK TOWER, 1947 (West Causeway Tower) was not radially plotted because only two small angle cuts were possible. Its position was plotted on the manuscript by pricking directly from the photograph, holding to triangulation station EAST CAUSEWAY TOWER, 1947, which is within 6 mm of the landmark.

Refer to page 32 of the field report report reparding Galveston Freeport Buoys 30, 31, 32, 42, 47, and 53. (.e.: "Listed, charted, non-existent" oct. 1997)

Galveston Freeport Buoy 82 was broken off one foot below water level at time of field inspection and was symbolized on the manuscript as an obstruction.

The check angle given with the sextant fix for Galveston Freeport Buoy 100 did not hold and was rejected.

Refer to forms 567 submitted with the field report and with this report.

West Bay Channel Day Beacon ll identified by the field party was radially plotted. The plotted position falls approximately .5 mm west of the sextant fix position. The radially plotted position has been rejected because it could be identified accurately on only one photograph.

### 38. CONTROL FOR FUTURE SURVEYS

Two recoverable topographic stations located on T-4867 (1933)

Were searched for by the field party. GIN,1933 was recovered and

used to control the radial plot. GOLF,1933 was destroyed by airport

construction. Forms 524 for these and seven other stations that were the not seached for are submitted with this report. GIN, 1933 is the

enly one plotted on the manuscript.

### 39. JUNCTIONS

Junction to the north with Survey T-8944 was not possible because photograph coverage was not sufficient to detail the area to the neat line of the manuscript. Junction to the east with T-8943 and to the west with T-8946 was made and is in agreement. The south limits of this survey are the limits of the project.

### 40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

### 41. BRIDGES

The vertical clearances of the two bridges at Galveston are taken from page 44 of the field report. The field party stated that the estimated MHW is the more dependable plane of reference. The clearances computed from predicted tides did not agree and were disregarded.

### 42 through 45

Inapplicable.

### 46. COMPARISON WITH FXISTING MAPS

The manuscript has been compared with the following War Department, Corps of Engineers quadrangles, scale 1:25,000, edition of 1943:

Virginia Point, Texas

Lake Como, Texas

Galveston, Texas

Previous Survey T-4867 (1933) exists in the area of this survey but was not available for comparison.

### 47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart No. 520, scale 1:30,000, published February 1945 and corrected to 6 June 1949.

Items to be applied to nautical charts immediately

None.

Items to be carried forward:

None.

Respectfully submitted

1 August 1949

Contagnophia Draft aman

Approved and forwarded 30 September 1949

Officer in Charge

Baltimore Photogrammetric

Office

West Bay Channel Daybeacons No. 11, 13, 15, 17, and 19 were replotted in this office with a recently calibrated three-arm protractor. The positions obtained were in agreement with the triangulation positions of those daybeacons within the accuracy of the sextant and radial plot method of location. As there is no record of these daybeacons having been moved since the 1933 triangulation positions were obtained, the triangulation positions have been accepted as being correct. The sextant fix positions have been removed from the manuscript, triangulation stations West Bay, beacon No. 11, No. 13, No. 15 and No. 17, 1933 have been plotted on the manuscript, and their positions listed on Form M-2388-12. Form 567 has been corrected to show the triangulation positions of these daybeacons, and the Nautical Chart Branch has been notified of this change.

L. C. Lande, Chief Graphic Compilation Section Division of Photogrammetry

31 March 1950

### PHOTOGRAMMETRIC OFFICE REVIEW

T-8945

1. Projection and grids 2. Title 200 3. Manuscript numbers 200 4. Manuscript size 200 1.
1. Projection and grids 7.22. Title 7. The first transfer of the f
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 along
shore cultural features
physical features
20. Water features 21. Natural ground cover 22. Planetable contours 23. Stereoscopic
instrument contours 24. Gontours in general 25. Spot elevations 26. Other physical
features ————————————————————————————————————
Oarra Cultural FEATURES
27. Roads 400 28. Buildings 400 29. Railroads 400 30. Other cultural features
BOUNDARIES
31. Boundary lines 32. Rublic land lines
MISCELLANEOUS Charl
33. Geographic names 444 34. Junctions 435. Legibility of the manuscript 444 36. Discrepancy
overlay 37. Descriptive Report 100. 38. Field inspection photographs 100. 39. Forms 100.
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:

M-2661-12

### REMARKS

6. Recoverable topographic stations from previous surveys are not shown on this manuscript.

Joseph W Vouncek

### DEPARTMENT OF COMMERCE

U. S. COAST AN GEODETIC SURVEY

## NONFLOATING AIDS ORGENANDMARKS FOR CHARTS

TO BE CHARTED TO BE CHARTED

STRIKE OUT ONE

Baltimore, Maryland

26 August

19 49

I recommend that the following objects which benex (have not) been inspected from seaward to determine their value as landerarks, be charted on (debteck) from the charts indicated.

The positions given have been checked after listing by

Joseph W. Vonasek

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

DEPARTMENT OF COMMERCE

U. S. COAST AN. GEODETIC SURVEY

## NONFLOATING AIDS ORCEANDMARKS FOR CHARTS

TO BE CHARTED ST.

STRIKE OUT ONE

Baltimore, Md.

19 49

26 August

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

The positions given have been checked after listing by Joseph W. Vonasek

Nov. 1947 x x x 1282,886 Chief of Party. . . . \* = . . = × × × H × × INSHORE CHART × × × H H M M HARBOR CHART Nov. 1947 DATE ON. 1933 = # \* = LOCATION METHOD 批 = \* # = = = # = = = = DATUM 1927 = -= = = = = = = = D. P. METERS 128 528 1492 1220 162 233 106 1555 968 349 651 697 1564 LONGITUDE 94 52 94 52 94 52 94 53 94 53 94 52 94 52 94 52 94 53 94 53 56 94 52 POSITION - 0 94 53 53 76 76 D. M. METERS 1498 1806 常言 710 582 1271 1271 1331 520 238 1238 1361 1364 1401 LATITUDE 16 16 29 16 16 16 16 16 97 17 17 15 17 29 17 29 0 56 29 29 29 53 8 29 53 29 53 SIGNAL S-IEA GALVESTON AIRPORT CRABNEL 8110 DESCRIPTION HEST BAY EAST DUMP REST BAY CHANNEL OFFATTS BAYOU TEXAS DAYBEACO CHARTING 10 STATE

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. Recommend to the land field survey sheets.

### DEPARTMENT OF COMMERCE

GEODETIC SURVEY U. S. COAST AN

# MONFLOATING AIDS OF CANDINARIES FOR CHARTS

TO BE CHARTED TOXBEOMETRED

STRIKE OUT ONE

The positions given have been checked after listing by

Baltimore, Maryland

26 August

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pe 6

I recommend that the following objects which have (nationally been inspected from seaward to determine their value as landmarks, charted on (activity than), the charts indicated. MULHIN

Joseph W. Vonasek

Thos. B. Reed

Chief of Party. = . NTRACOAST × × × × H × M INSHORE CHART H X M × HARBOR CHART M H DATE OF LOCATION . \* . \* . = . = = = Fix T-8945 METHOD OF LOCATION AND SURVEY No. = = -. = = = DATUM \* \* 1927 # D. P. METERS 97 552 248 23 293 789 1019 305 424 1131 1249 1282 1336 94 52 1117 LONGITUDE 52 22 22 22 52 22 52 52 52 52 22 22 52 POSITION 18 0 76 76 76 46 76 76 76 76 36 76 76 D. M. METERS 876 147 889 176 34 878 941 805 576 884 672 552 734 LATITUDE 18 18 18 18 18 18 18 18 18 18 29 18 18 18 50 8 50 29 29 0 53 29 30 29 53 53 29 29 SIGNAL DESCRIPTION GALVESTON FREEPORT = = . = \* TEXAS # = BUOY 23 35 36 33 28 34 37 38 7 28 25 23 8 CHARTING STATE 0 = = = \* . #

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 Information under each column heading should be given. individual field survey sheets.

### DEPARTMENT OF COMMERCE

U. S. COAST AN SEODETIC SURVEY

## MONFLOATING AIDS ORGINAMINARIES. FOR CHARTS

TO BE CHARTED STRIKE OUT ONE TO BE DESETED.

O BE CHARTED STRIKE OUT ONE

26 August 194

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landingriks, be charted on (defend from) the charts indicated.

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The positions given have been checked after listing by

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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.

### DEPARTMENT OF COMMERCE U. S. COAST AN SEODETIC SURVEY

# NONFLOATING AIDS ORCEANDMARKS FOR CHARTS

TO BE CHARTED STRIKE OUT ONE

Baltimore, Maryland

26 August . 19 49.

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

The positions given have been checked after listing by

Joseph W. Vonasek

			•				Thes. B	Read		Chief	Chief of Party.
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3		CAPE.	29 17	167	94 53	1446	•	•	•	×	
, 59	•	988	29 17	n	94 53	1569	•	•	•	×	
, 99			29 17	153	94 53	1557		•	•	×	-
, 19	•		29 17	73	94 54	132	•	•	•	×	
, 89	•	1	29 17	147	94 54	92	•	•	•	×	
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating waids 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.

### DEPARTMENT OF COMMERCE

U. S. COAST AN GEODETIC SURVEY

# MONFLOATING AIDS ORCICAMBMARKS FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

Baltimore, Maryland

spected from seaward to determine their value as lar	7000 17 1000	POSITION METHOD OF CHILDREN DATE	METERS O D. P. METERS DATUM SURVEY DEPORTION DEPORT	94 54 381 1927 T-8945 1987 x	81 94 54 355 " " " x x x "	53 94 54 485 " " " ××× "	# * * * # # # 89 <sup>th</sup> 75 76 00:	94.54 842 " " x	* × × × * * * 694 75 76 00	56 94.54 1155 " " x x x "	18 94.54 1184 " " " x x x "	71 94 54 1559 " " " ××× "	90 94 54 1438 " " " " " " " "	61 94 55 237 " " xxx "	08 94.55 436 " " " xxx"	77 94.55 462 " " xxx "	O4 94.55 639 " " " " " " " " " " " " " " " " " " "
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I recommend that the following objects which have (heer net) charted on (delocation) the charts indicated.  The positions given have been checked after listing by to the state of the charten in the cha		TEXAS	SIGNAL SIGNAL NAME	GALVESTON PREEPORT					•	- CALCA	988		*		The could be a second of the country		>
charte		STATE	CHARTING	3008	72	. 73	174	175	176	177	78	64	80	81	83	780	85

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating a 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 violating individual field survey sheets. Information under each column heading should be given.

### DEPARTMENT OF COMMERCE

SEODETIC SURVEY U. S. COAST AN.

# MONFLOATING AIDS ORCICAMINATERS FOR CHARTS

TO BE CHARTED TO BEX DELETED

STRIKE OUT ONE

to determine their value as landmarks, be I recommend that the following objects which have materators been inspected from seaward Baltimore, Md.

19 49.

26 August

The positions given have been checked after listing by charted on their traditional the charts indicated.

Joseph W. Vonasek

Reed

Thos. B.

Chef of Party.
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CHARTS
AFFECTED 882 1282, = = . = ×× XXX M × H M H H M HARBOR CHART × M × H H H LOCATION 1947 IOV. = \* = # \* = \* LOCATION AND SURVEY No. METHOD BEATANI # = # = \* DATUM -= = . = = . D. P. METERS 1182 642 194 1523 797 11.59 326 1557 355 179 1114 7779 1134 56 14.31 LONGITUDE 94 56 95 76 56 94 55 55 56 28 26 55 55 33 55 POSITION 0 46 46 76 76 76 76 76 76 76 36 D. M. METERS 599 526 347 265 575 524 897 402 398 319 215 665 577 458 LATITUDE 17 29 17 17 17 17 17 17 17 17 17 17 17 17 17 29 29 29 53 8 29 53 29 50 8 3 53 SIGNAL DESCRIPTION GA LVESTON - PREEPORT GALVESTON-FREEPORT = -. \* # TEXAS = 83 88 92 8 96 CHARTING 89 8 4 76 95 16 86 STATE BUOY

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 Positions of charted landmarks and nonfloating This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Information under each column heading should be given. individual field survey sheets.

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### DEPARTMENT OF COMMERCE

U. S. COAST AN GEODETIC SURVEY

# INDINFLOATING AIDS DRIVITAINDMARKS FOR CHARTS

TO BE CHARTED TOBEODEKETED

STRIKE OUT ONE

I recommend that the following objects which have (transment been inspected from seaward to determine their value as landmanks, red on training the charts indicated.

The positions given have been checked after listing by charted on fastered from the charts indicated.

Joseph W. Vonasek

Baltimore, Maryland

Chief of Party.

520, x 1282,886 OFFERD CHARTS
OFFERD CHARTS INSHORE CHART HARBOR CHART DATE OF LOCATION Not. 1947 LOCATION METHOD FIX T-8945 B. Reed N.A. 1927 DATUM O I D. P. METERS 379 LONGITUDE 56 POSITION 76 D.M. METERS 252 LATITUDE -886 Melme 29 17 0 SIGNAL 11 60 DESCRIPTION GALVESTON PREEPORT TEXAS CHARTING 1001 STATE

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.

### DEPARTMENT OF COMMERCE

U. S. COAST AN. GEODETIC SURVEY

## NONFLOATING AIDS GRODE AND MARKS FOR CHARTS

TO BE CHARTED TO BE DELETED

September H. 1949.

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

Joseph W. Vonasek The positions given have been checked after listing by

1282,886 Charty. CHARTS = XXX INSHORE CHART наявов снаят 1947 DATE OF LOCATION Hev. SEXTANT METHOD OF LOCATION AND SURVEY No. 1927 DATUM 1413 O I D. P. METERS 1270 LONGITUDE 52 22 POSITION 76 1004 94 762 D. M. METERS LATITUDE 29 16 16 29 0 86 Melnes SIGNAL GALVESTON AIRPORT CHANNEL DESCRIPTION TEXAS = CHARTING STATE 77 77

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

### DEPARTMENT OF COMMERCE

U. S. COAST AN. GEODETIC SURVEY

## NONFEGGETHING MIDS OR LANDMARKS FOR CHARTS

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SOURCE REPORT STRIKE OUT ONE have have have have a seaward to determine their value as landmarks, be charted on the positions given have been checked after listing by Joseph W. Venasek

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THE REAL PROPERTY.			LATII	LATITUDE	LONG	LONGITUDE		LOCATION	DATE	OB CH	CHARTS
CHARTING	DESCRIPTION	SIGNAL	- 0	D. M. METERS	- 0	D. P. METERS	DATUM	SURVEY No.		-	
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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 This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating individual field survey sheets. Information under each column heading should be given.

### GEOGRAPHIC NAMES

- · Anderson Ways Auzston Bayou
- · Galveston Bay
- Galveston Causeway
- Galveston Island
- Galveston Municipal Airport
- · Hance Bayou
- Highland Bayou
- · Island = r.r. tower 2 5te. stop.
- Jones Lake
- · Melager Cove
- Middle Deer Island
- . North Deer Island
- Offatts Bayou
- South Deer Island
- · Teichman Point
- V. Virginia Point
  - West Bay
- Wilson Point

Names preceded by are approved. 9-1-50. L. Heck

### Review Report T-8945 Shoreline Survey 1 September 1950

62. Comparison with Registered Topographic Surveys. -

T-4867

1:20,000

1933-4

63. Comparison with Maps of Other Agencies .-

USE Galveston USE Virginia Point 1:25,000 1949 (1942 photos)

64. Comparison with Contemporary Hydrographic Surveys. -

None

65. Comparison with Nautical Charts .-

1282 1:80,000 ed. Feb. 1945, rev. Sept. 1948 520 1:30,000 " " " " " 1949

Various charted pipes, piles, and rocks are not on the manuscript. Field inspection data are lacking, and they are not visible on the photographs,

"Pipeline-crossing sign and cable-crossing signs" Are recorded on the manuscript by points only, indicate cable and pipeline crossing. The structures of the signs are plainly visible on the photographs. They lie on each side of the channel and north of the railway bridge. No mention is made of clearances, or whether pipeline and cables are submerged; ror are their shore ends indicated.

Chart 520 mentions a cable crossing at the bridges and gives a 99 foot clearance, but the entry does not make it clear over which bridge it passes, or if over both.

A check on this data reveals that the Feb. 1945 edition of Chart 520 indicated no cable, and that the information was first entered on the chart manuscript on Feb. 6, 1947. The figures were taken from the USE Intracoastal Waterway, 1945 maps.

A further check is recommended.

Changes made during review: several shoreline changes were made, dolphins at Jones Lake entrance, towers on the northern peninsula of Galweston Island, and range values were added.

Page 2 T-8945

66. Accuracy. - This map complies with project instructions and is adequate for charting purposes.

Reviewed by:

APPROVED

Chief, Review Section HRB 11/29/51 Div. of Photogrammetry

Chief, Nautical Chart Branch Division of Charts

Photogrammetry

### NAUTICAL CHARTS BRANCH

SURVEY NO. 7-8945

### Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
3/24/50	88 le	Almee	Before Action Verification and Review
8/1/51	520	H. U. Burgayne	Before After Verification and Review
6/13/52	886	ywalley	Better After Verification and Review Completely opplied
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			Before After Verification and Review

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.