

# 9803

Original

Diag. Cht. No. 1282.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	TOPOGRAPHIC PLANIMETRIC
Field No.	Ph-6006
Office No.	T-9803
LOCALITY	
State	TEXAS
General locality	GALVESTON BAY
Locality	TEXAS CITY SW
1960-1961	
CHIEF OF PARTY	
Joseph K. Wilson, Chief of Field Party	
V.R. Sobieralski, Tampa District Officer	
LIBRARY & ARCHIVES	
DATE	January 1965

USCOMM-DC 5087

9803

FORM C&GS-181a (12-61)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
<b>DESCRIPTIVE REPORT - DATA RECORD</b> <b>T -9803</b>			
PROJECT NO. (II):  PH-6006			
FIELD OFFICE (II):  Texas City Texas		CHIEF OF PARTY  J. K. Wilson	
PHOTOGRAMMETRIC OFFICE (III):  Tampa, Florida		OFFICER-IN-CHARGE  V. Ralph Sobierlski	
INSTRUCTIONS DATED (II) (III):  Field and Office (732 ms) not dated (received 9/30/60)			
METHOD OF COMPILATION (III):  Kelsh Plotter			
MANUSCRIPT SCALE (III):  1:5,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):  1:2,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.		DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III):  N.A. 1927		VERTICAL DATUM (III): MEAN SEA LEVEL EXCEPT AS FOLLOWS: <i>Elevations shown as (25) refer to mean high water</i> <i>Elevations shown as (5) refer to sounding datum</i> <i>i.e., mean low water or mean lower low water</i>	
REFERENCE STATION (III):  GALVESTON SOUTH BASE(USE) 1900-1960			
LAT.: 29°19'48.949"(1507.0m)		LONG.: 94°54'50.193"(1354.3m)	
PLANE COORDINATES (IV):  y = 567,008.15Ft / x = 3,301,643.22 Ft.		<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED	
		STATE  Texas	ZONE  So. Central
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.			

## DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): J. K. Wilson W. M. Reynolds		DATE: May 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Air photo compilation Date of photography: Nov. 27, 1960		
PROJECTION AND GRIDS RULED BY (IV): J.O.C. (W.O.)		DATE June 1961
PROJECTION AND GRIDS CHECKED BY (IV): J.F. (W.O.)		DATE June 1961
CONTROL PLOTTED BY (III): I. I. Saperstein		DATE Sept. 1961
CONTROL CHECKED BY (III): V. P. Cackowski		DATE Sept. 1961
<del>PLANIMETRY</del> /STEREOSCOPIC CONTROL EXTENSION BY (III): B. F. Lampton (W.O.)		DATE
STEREOSCOPIC INSTRUMENT COMPILATION (III):  I. I. Saperstein	PLANIMETRY I. I. Saperstein	DATE October 1961
	CONTOURS *	DATE
MANUSCRIPT DELINEATED BY (III): I. I. Saperstein Reviewed W. H. Shearouse		DATE October 1961 December 1961
SCRIBING BY (III): V. P. Cackowski Reviewed: W. H. Shearouse		DATE April 1962 September 1962
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
REMARKS: * The entire area was contoured by planetable on the field prints by J. K. Wilson and W. M. Reynolds, The contours were transferred to the manuscript by tracing from the field prints.		

FORM C&GS-181c  
(12-61)U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III): Wild single lens "S"

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60-S-4655A	11/27/60	12:56	1:10,000 Dia-	-
" 4656A	"	"	" positives	-
" 4657A	"	12:57	"	0.7
" 4663A	"	13:05	"	-
" 4664A	"	"	"	-
" 4665A	"	"	"	-

## Predicted TIDE (III)

## Diurnal

	RATIO OF RANGES	MEAN RANGE	<del>SPRING</del> RANGE
REFERENCE STATION: Galveston	-	1.3	2.0
SUBORDINATE STATION: Texas City Turning Basin	1.0	1.0	1.4
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

DATE:

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 2\* RECOVERED: 1\* IDENTIFIED: 1\*

NUMBER OF BM(S) SEARCHED FOR (II): 6 RECOVERED: 3 IDENTIFIED: 3

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 0

REMARKS:  
\* One station falls south of map limits.

## COMPILATION RECORD

## COMPLETION DATE

## REMARKS

Compiled from field inspection done prior to hurricane CARLA of Sept.11, 1961	December 1961	

# PROJECT PH-6006

Planimetric Mapping

West Shore Galveston Bay

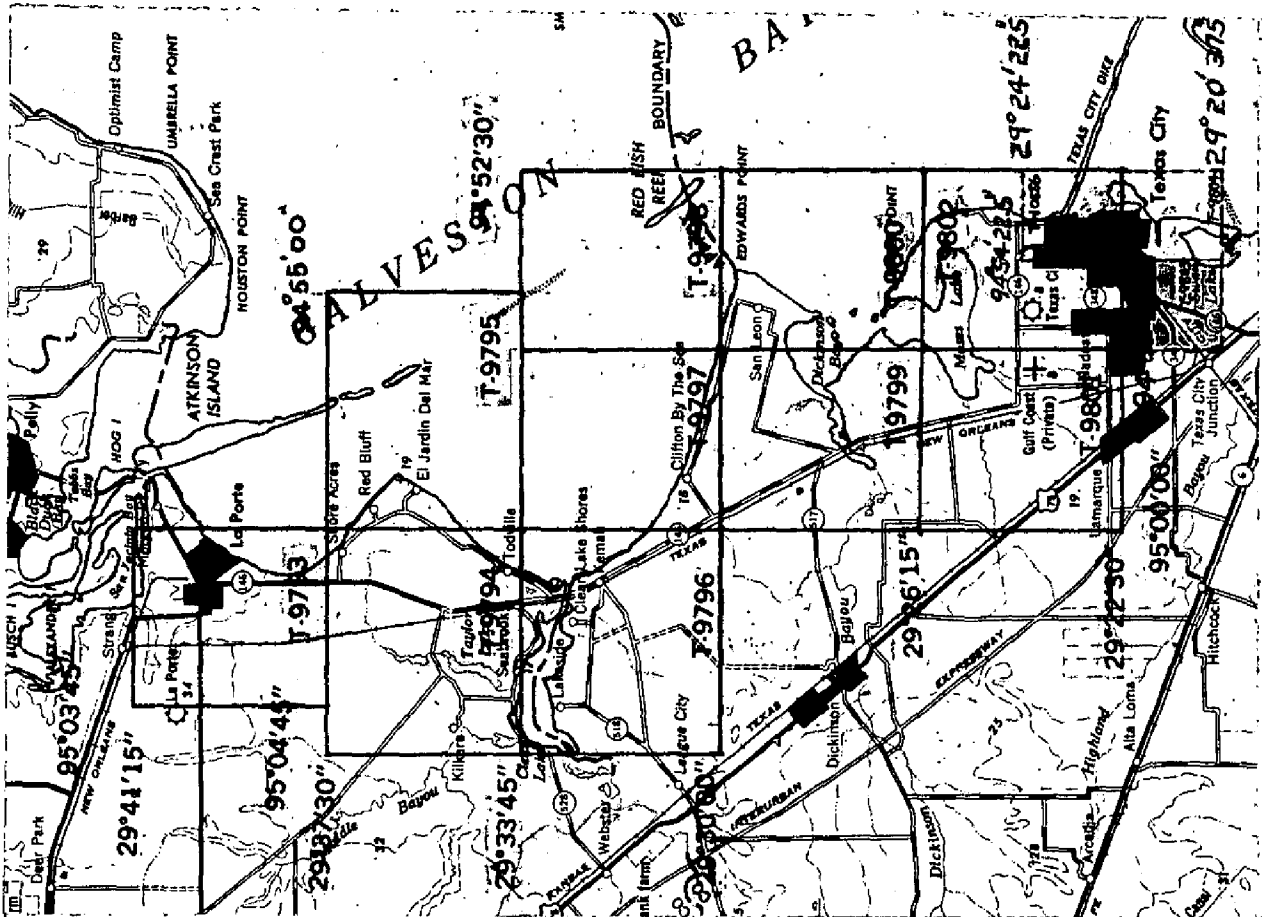
TEXAS

1:10,000 AND 1:5,000 SCALE

Official Mileage for Cost Accounts

Sheet Number	Area Sq. Mi.	Shoreline Linear Miles
9793	14	6
9794	18	7
9795	2	5
9796	15	10
9797	3	4
9798	1	7
9799	15	10
9800	3	9
9801	16	4
9802	10	10
9803	13	3
9804	10	14
10886	6	9
	<u>126</u>	<u>98</u>

2-16-62



FIELD INSPECTION REPORT  
Map T-9803  
Project Ph-6006

Please refer to Field Inspection Report submitted  
with Map T-10886 for any information pertain-  
ing to this map.

Approved: 6-5-61  
*Joseph K. Wilson*  
J.K. Wilson

Submitted: 6-5-61  
*W. M. Reynolds*  
Wm. M. Reynolds

PROJECT NO. Ph-600A SCALE OF MAP 1:5000

SCALE FACTOR

[illegible]

COMPUTED BY: 11S

DATE Sept 6, 1961

CHECKED BY: RJP

DATE \_\_\_\_\_

COMM-DC-57843



PHOTOGRAMMETRIC PLOT REPORT  
Project PH-6006  
West Shore, Galveston Bay

21. Area Covered

Surveys T-9793 through T-9802 at 1:10,000 and T-9803, T-9804, and T-10886 at 1:5,000. These surveys cover the west shore of Galveston Bay from Galveston to Texas City.

22. Method

Bridging was done by Analytic Aerotriangulation method which utilizes the Wild PUG Point Transfer Device and the Mann Comparator. Details of this method are discussed under a separate "Notes to the Compiler".

There were 47 photographs (panchromatic, 1:30,000 scale) used in bridging. These were laid out as six separate strips with control identified for a separate adjustment of each strip. This procedure was done for all strips except Strip #3. The terminal control station for Strip #3 was in error (see Sub-Heading 23 below) and a tie point from Strip #4 was used instead.

A satisfactory adjustment was made to control with excellent ties between strips. See tabulation by strips under Sub-Heading 25.

Tie points were selected at the time of bridging to set individual models of the 1:10,000 photographs at Texas City. These photographs are numbered 60-S series: 4621A through 4626A, 4629A through 4631A, 4654A through 4659A, 4662A through 4668A, and 9839A through 9846A. These common points have been identified and sketched on these 1:10,000 photographs.

23. Control

Horizontal control was adequate to control the bridge. Control stations not held are discussed below:

VOR Galveston GLS 1955 - Reported by field party to have been rebuilt in 1960. An airport survey party determined the position of the facility during 1960 but to less than third-order accuracy. An adjustment using this position could not be done satisfactorily. With a tie point from Strip #4 in lieu of this station a satisfactory solution was obtained.

- 2 -

23. Control continued

Dickenson 1932 - Sub. Sta. 2 was missed in the bridge by 20 feet. Study of the photographs revealed a probable error in identification. Sub. Sta. 1 held well.

The following stations were office identified and held satisfactorily:

Texas City Terminal RR Co., E. Water Tank 1933  
La Porte, Humble Oil Radio Mast 1955  
St. Mary's Church Cross 1932

24. Photography

Adequate and satisfactory.

Sketch showing control and photographs attached.

25. Accuracy of Individual Strips

## Strip I - 10 Models

1.5 ft. average closure to 7 control stations  
7.6 ft. maximum closure to 7 control stations  
2.8 ft. average tie to adj. strip  
6.7 ft. maximum tie to adj. strip

## Strip II - 10 Models

1.9 ft. average closure to 11 control stations  
6.1 ft. maximum closure to 11 control stations  
3.1 ft. average tie to adj. strip  
7.8 ft. maximum tie to adj. strip

## Strip III - 9 Models

1.0 ft. average closure to 5 control stations  
2.4 ft. maximum closure to 5 control stations  
3.0 ft. average tie to adj. strip  
5.0 ft. maximum tie to adj. strip

## Strip IV - 7 Models

1.4 ft. average closure to 9 control stations  
4.0 ft. maximum closure to 9 control stations  
2.7 ft. average tie to adj. strip  
4.6 ft. maximum tie to adj. strip

25. Accuracy of Individual Strips continued

Strip V - 5 Models

1.0 ft. average closure to 7 control stations  
4.9 ft. maximum closure to 7 control stations  
1.1 ft. average tie to adj. strip  
3.2 ft. maximum tie to adj. strip

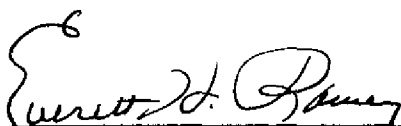
Strip VI - 5 Models

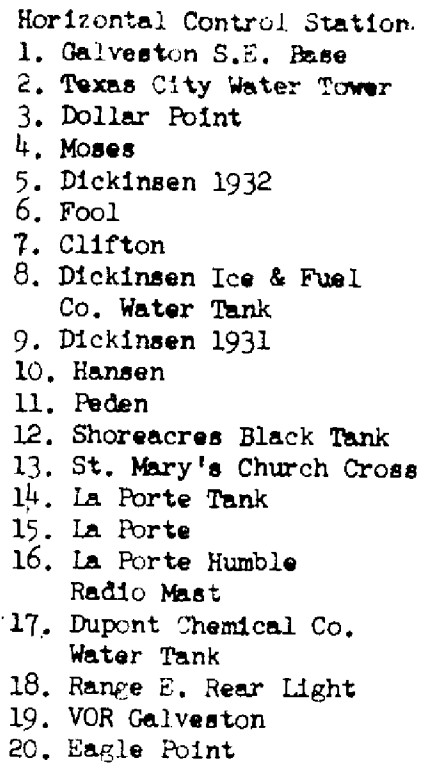
1.0 ft. average closure to 6 control stations  
2.7 ft. maximum closure to 6 control stations  
3.5 ft. average tie to adj. strip  
7.8 ft. average tie to adj. strip

Submitted by:

  
B. Frank Lampton

Approved:

  
Everett H. Ramey  
Chief, Aerotriangulation Section



COMPILATION REPORT  
T-9803

31. DELINEATION

The Kelsh plotter was used. The field inspection was adequate and no difficulty was encountered in the interpretation of the photographs.

32. CONTROL

See Photogrammetric Plot Report.

Two (2) points were misidentified on the 1:10,000 contact photographs when they were transferred from the 1:30,000 diapositives used in the bridge. These are:

36318 photo 60-S-4655A

36317 " " 4656A

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

All drainage is self evident. Contours were transferred from the 1:5,000 ratio field photographs by holding common points and detail. The 1:5,000 ratio photographs showing contours did not reach the southern limits of the manuscript being short 3 seconds. The contours in this strip were completed by the Kelsh plotter.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate and no difficulty was encountered in its delineation. All alongshore details have been mapped. No low-water or shoal lines were shown.

36. OFFSHORE DETAILS

There are no offshore details except for dolphins and piling in the barge canal.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions have been made with T-9804 to the east; T-9802 (1:10,000) to the north; T-11787 (1:20,000) to the west and south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS VIRGINIA POINT quadrangle 1:24,000 edition of 1954. The comparison is favorable except that the area northwest of Swan Lake, previously shown as marsh, is now water.

There are no planimetric or shoreline surveys covering the area.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with chart 886, 1:40,000 edition of January 5, 1953 revised Sept. 26, 1960. The same difference noted as in Item 46.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

*I. I. Saperstein*  
I. I. Saperstein  
Cartographer (photo)

APPROVED AND FORWARDED: 29 NOV 1962

*V. Ralph Sobieralski*  
V. Ralph Sobieralski  
Tampa District Officer

49. NOTES FOR THE HYDROGRAPHER

None.



FORM 182 (8-61)		PHOTOGRAMMETRIC OFFICE REVIEW T. 9803		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
1. PROJECTION AND GRIDS WHS		2. TITLE WHS unclassified		3. MANUSCRIPT NUMBERS WHS	
				4. MANUSCRIPT SIZE WHS	
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY WHS		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) XX		
	7. PHOTO HYDRO STATIONS XX	8. BENCH MARKS WHS	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT W.O.	
	11. DETAIL POINTS I.I.S. (Kelsh)				
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE WHS		13. LOW-WATER LINE XX		14. ROCKS, SHOALS, ETC. XX
	16. AIDS TO NAVIGATION XX		17. LANDMARKS XX		18. OTHER ALONGSHORE PHYSICAL FEATURES WHS
	19. OTHER ALONGSHORE CULTURAL FEATURES WHS				
PHYSICAL FEATURES	20. WATER FEATURES WHS		21. NATURAL GROUND COVER WHS		
	22. PLANETABLE CONTOURS WHS		23. STEREOSCOPIC INSTRUMENT CONTOURS XX		
	24. CONTOURS IN GENERAL WHS		25. SPOT ELEVATIONS WHS		
	26. OTHER PHYSICAL FEATURES WHS				
CULTURAL FEATURES	27. ROADS WHS		28. BUILDINGS WHS		29. RAILROADS WHS
	30. OTHER CULTURAL FEATURES WHS				
BOUNDARIES	31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX		
MISCEL- LANEOUS	33. GEOGRAPHIC NAMES WHS			34. JUNCTIONS WHS	
	35. LEGIBILITY OF THE MANUSCRIPT WHS		36. DISCREPANCY OVERLAY XX		37. DESCRIPTIVE REPORT WHS
	38. FIELD INSPECTION PHOTOGRAPHS WHS		39. FORMS WHS		
	SIGNATURE OF REVIEWER <i>William H. Shearouse</i> William H. Shearouse		SIGNATURE OF SUPERVISOR FOR REVIEW SECTION OR UNIT <i>Milton M. Slavney</i> Milton M. Slavney		
40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT-Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.					
SIGNATURE OF COMPILER			SIGNATURE OF SUPERVISOR		

GEOGRAPHIC NAMES

T-9803 (Texas City, S.W.)

Barge Canal

Swan Lake  
Turning Basin  
Texas City

*A. J. Wraight*

A. J. Wraight  
Geographic Names

Review Report  
of Planimetric Maps

T-9793 thru T-9804 and T-10886

August 1964

61. General Statement

This project is a continuation of mapping Project PH-5910 (21024). It completes our modern base mapping along the western side of Galveston Bay for nautical and aeronautical charting programs.

62. Comparison with Registered Topographic Surveys

T-283	1:20,000	1850
T-298	1:20,000	1850
T-4860	1:20,000	1933
T-4867	1:20,000	1934
T-6051	1:10,000	1934
T-8944	1:10,000	1947

Cultural and shoreline changes have been continuous with extensive cultural changes in the urban areas. These maps are to supersede the above surveys for common area for nautical charting.

63. Comparison with Maps of Other Agencies

Texas City	1:24,000	1954
La Porte	1:24,000	1955
League City	1:24,000	1955
Bacliff	1:24,000	1956
Virginia Point	1:24,000	1956

There are cultural and shoreline differences but, in general the agreement is good.

64. Comparison with Contemporary Hydrographic Surveys

H-8693	1:10,000	1962
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Shoreline and control was furnished prior to hydrography and no changes of importance have been made.

65. Comparison with Nautical Charts

588	1:10,000	1964
886	1:40,000	1963
1282	1:80,000	1963 revised to May 1964

Differences exist. However, there are no items to be applied immediately.

66. Adequacy of Results and Future Surveys

These surveys were prepared according to project instructions and are within the requirements for adequacy and accuracy.

Reviewed by:

L. C. Lande  
L. C. Lande

Approved by:

Charles Shuman  
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

J. E. Waugh 7/26/65  
Chief, Photogrammetry Division

FIELD EDIT REPORT T-9803  
(Shoreline)

*R*

51. METHODS

The shoreline was inspected by truck, skiff and walking. The distance to the MHWL was spot checked at intervals from points of known location and found to be correct and adequate.

Corrections and additions to the manuscript have been noted on the field edit sheets in red. Deletions are shown in green.

All additions and deletions were compiled on the milar advance manuscript furnished this unit. This was done for the benefit of the East Coast Field Party.

The changes were then transferred to the field edit sheet included with this report.

52. ADEQUACY OF COMPILATION

The map compilation appears complete and adequate with the exception of the corrections and additions shown on the ozalid field edit sheet.

53. MAP ACCURACY.

The accuracy of the map compilation appears to be complete and adequate.

54. RECOMMENDATIONS

There are no recommendations.

55. EXAMINATION OF PROOF COPY

No one was contacted to examine a proof copy of the map.

*for* *J. H. Blumer*  
James H. Blumer  
LTJG C&GS  
Photo Hydro Party 723

**FIELD EDIT REPORT T-9803**  
**(Shoreline)**

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James H. Blumer  
LTJG C&GS  
Photo Hydro Party 723

