

9796

Original

Diag. Cht. No. 1282.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	PLANIMETRIC
Field No. Ph-6006	Office No. T-9796
LOCALITY	
State	TEXAS
General locality	WEST SHORE GALVESTON BAY
Locality	KEMAH
1960 - 1962	
CHIEF OF PARTY	
Joseph K. Wilson, Chief of Field Party	
V.R. Sobieralski, Tampa District Officer	
LIBRARY & ARCHIVES	
DATE	January 1965

USCOMM-DC 5087

9796

## DESCRIPTIVE REPORT - DATA RECORD

T - 9796

PROJECT NO. (II):

PH-6006

FIELD OFFICE (II):

Texas City Texas

CHIEF OF PARTY

Joseph K. Wilson

PHOTOGRAMMETRIC OFFICE (III):

Tampa District Office

OFFICER-IN-CHARGE

V. Ralph Sobieralski

INSTRUCTIONS DATED (II) (III):

Field &amp; Office (732ms) not dated (received Sept. 30, 1960)

Amendment Field &amp; Office - Feb. 14, 1961

METHOD OF COMPILATION (III):

Kelsh Plotter

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000

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): MHW

/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):

HANSON 1933

LAT.: ✓ ✓ ✓

29° 32' 01.479" (45.5m)

LONG.: ✓ ✓ ✓

95° 00' 34.428" (927.0m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

Y = 639,897.70 Ft. ✓

x = 3,268,670.60 Ft. ✓

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.

FORM C&GS-181b (12-61)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT - DATA RECORD		
FIELD INSPECTION BY (II): M. A. Stewart		DATE: Mar. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Date of photography: Sept. 16, 1960 Air photo compilation  <i>Field Edit Blumer 1962</i>		
PROJECTION AND GRIDS RULED BY (IV): J.D.C. (W.O.)		DATE June 1961
PROJECTION AND GRIDS CHECKED BY (IV): J.F. (W.O.)		DATE June. 1961
CONTROL PLOTTED BY (III): V. P. Cackowski		DATE Sept. 1961
CONTROL CHECKED BY (III): R. J. Pate		DATE Sept. 1961
<del>ADDITIONAL</del> STEREOSCOPIC CONTROL EXTENSION BY (III): B. F. Lampton (W.O.)		DATE
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY I. I. Saperstein Reviewed by: R. E. Smith	DATE June 1962
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): I. I. Saperstein  Reviewed by: W. H. Shearouse		DATE June 1962 Oct. 1962
SCRIBING BY (III): V. P. Cackowski Reviewed by: R. R. Wagner		DATE Nov. 1962 Dec. 1962
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): W. H. Shearouse		DATE Jan. 1963
REMARKS:		

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild "S" Camera

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60-S-1946A	9/16/60	0823	1:30,000 Dia-	0.8
60-S-1947A	"	"	positives	"
60-S-1948A	"	0824	"	"
60-S-1989A	"	0901	"	"
60-S-1990A	"	0902	"	"

Predicted

TIDE (III)

Diurnal

Predicted		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Galveston	-	1.0	1.4
SUBORDINATE STATION:	Morgan Pt.	0.8	0.8	1.0
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV):		DATE:		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 10*	RECOVERED: 3**	IDENTIFIED: 3**		
NUMBER OF BM(S) SEARCHED FOR (II): 0	RECOVERED: 0	IDENTIFIED 0		
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0				
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 0				

## REMARKS:

\* Includes 3 stations outside project  
 \*\* " 2 " " "

## COMPILATION RECORD

## COMPLETION DATE

## REMARKS

Alongshore area for hydro	May 1962	superseded
Compiled from field inspection done prior to hurricane CARLA of Sept. 11, 1961	June 1962	
Alongshore area revised from field edit. Compilation complete	April 1963	

# PROJECT PH-6006

Planimetric Mapping

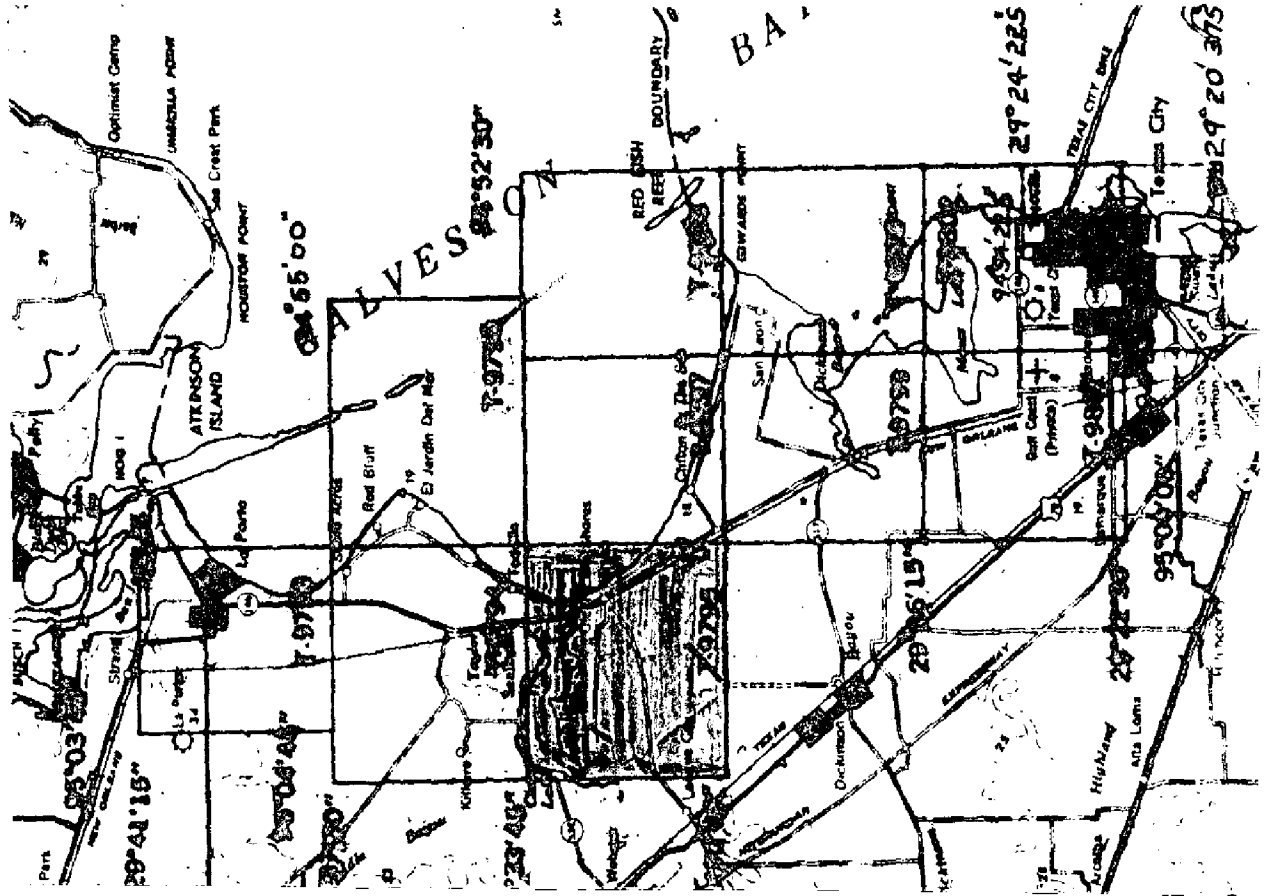
West Shore Galveston Bay

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>



FIELD INSPECTION REPORT  
Maps T-9796, T-9797, T-9798  
Project Ph-6006

2. Areal Field Inspection.

These maps are located in the southeastern part of Texas, along the west side of Galveston Bay. The entire land area is low and flat. The elevation averages from around 8 to 15 feet. The land area is primarily open grass land but has a few scattered clumps of trees. The small towns of Kemah and Seabrook are located in Map T-9796. The settlement of Bacliff is located in Map T-9797. The only land area in Map T-9798 is a small portion of the bay shore in the southwest corner and Red Fish Island in the southeast corner.

There is no industry of any appreciable size located in these maps. The small towns are mainly residential with the inhabitants working elsewhere. In the Kemah, Seabrook area boats are available for hire for fishing parties and other forms of recreation.

The Houston Ship Channel crosses Map T-9798 from the southeast to the northwest. This channel is heavily traveled by tankers and tugs with barge tows.

Field inspection is believed complete. The photographs were taken in August and September of 1960 and was of very good quality. All of the detail is sharp and no difficulty was encountered in their interpretation in the field. Field inspection was performed on the following single lens photographs; 60S 1946A through 60S 1948A, 60S 1989A, 60S 1990A, 60S 2007A, 60S 2008A, 60S 2292A, 60S 2312A and 60S 9952A.

3. Horizontal Control.

All Coast and Geodetic Survey control was searched for. Horizontal control was identified on a set of 1:30,000 scale contact prints and was submitted to Washington on 2 March 1961. The requirements for the identification of control for the plot were adequately met in these maps.

Six intersection stations were established by third-order methods in Map T-9798, in 1960. Three stations were established in the same map in 1961. The 1960 stations are, Houston Ship Channel Lights 59, 60, 63, 64, 67, and 68. The 1961 stations are, Red Fish Bar Light 2, Red Fish Bar Inner Range Front Light and Red Fish Bar Inner Range Rear Light. Satisfactory checks on the triangle computations were obtained.

Three fixes were observed on Red Fish Island. These fixes were taken at identifiable points on the photographs and the positions will be used to control the single strip of photographs along the Houston Ship Channel. These photographs were black and white prints of color photography and were numbered 60W 9772 through 60W 9776. These points were not permanently marked.

No adjustments of any of the triangulation were made by the field party.

The following stations were reported lost;

T-9796

League City Powerhouse Tank 1931  
J. M. West Estate Water Tank 1931  
Flanders 1850  
Seabrook Beacon 1933  
Seabrook Beacon No. 1 1911  
Seabrook Beacon No. 3 1911  
Seabrook Beacon No. 5 1911

T-9797

Rock Springs ( USE ) 1900

T-9798

Houston Channel Beacon No. 13 1933  
Houston Channel Beacon No. 14 1933  
Houston Channel Beacon No. 15 1933  
Houston Channel Beacon No. 16 1933  
Houston Channel Beacon No. 17 1933  
Red Fish Bar Cut Light (USE) 1900  
Red Fish Bar Light 2 1960

4. Vertical Control.

No bench marks were searched for within these maps.

5. Contours and Drainage.

Contours are inapplicable.

Drainage is self-evident from an examination of the photographs.

6. Woodland Cover.

All woodland cover was inspected and has been classified on the photographs.

7. Shoreline and Alongshore Features.

The mean high water line was inspected by skiff running close to shore and by walking along the beach. It has been indicated on the photographs.

The low water line was not inspected or located.

There is little or no foreshore. There are no bluffs or cliffs.

All docks, wharves, piers and landings have been indicated on the photographs.

Shore ends of submarine cables and pipelines have been indicated on the photographs.

8. Offshore Features.

The aids to navigation along the Houston Ship Channel were located by triangulation. The aids to navigation along Clear Creek Channel were located by direct identification on the photographs and by theodolite cuts from identifiable points on the photographs.



## 8. Cont'd

Two wrecks charted on nautical chart 1282 could not be found. One is in map T-9796 and is charted just east of the entrance into Clear Lake. The other is in map T-9797 and is charted approximately 0.5 mile northeast of Baccliff. Local residents were contacted and none of them could recall the wrecks having been in their charted positions. They were searched for with a skiff and no evidence of their existence could be found.

There is an oil field being developed in the southeast corner of map T-9798. This area was carefully checked and all completed wells have been indicated on photographs 60S 2292A and 60S 9952A.

9. Landmarks and Aids.

All landmarks for nautical charts and fixed aids to navigation are adequately covered by Form 567. This form for the entire project will be submitted at a later date.

10. Boundaries, Monuments and Lines.

None of the small towns within these maps are incorporated. There are no other features warranting the mapping of limit lines.

11. Other Control.

None was established.

12. Other Interior Features.

All roads were driven and have been classified on the photographs.

All buildings were inspected and landmark buildings have been indicated on the photographs.

Measurement of bridges and cables was not required.

There is one abandoned airfield in map T-9796. It is visible on the photographs but is now overgrown with weeds and grass. It is now used for the grazing of cattle.

13. Geographic Names.

A systematic investigation of geographic names was not required. The field inspector was alert for any new names but none are recommended.

14. Special Reports and Supplemental Data.

Form 567, to be submitted at a later date.

Black and white ratio prints of color photography numbered 60W 9772 through 60W 9776, submitted to Washington 16 March 1961.

Letter of Transmittal submitted with this data.

Submitted,

*William M. Reynolds*  
William M. Reynolds

SCALE FACTOR

COMM-DC-57843

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COMPILATION REPORT  
T-9796

PHOTOGRAMMETRIC PLOT REPORT

The analytic ~~ac~~ phototriangulation bridge was run in the Washington Office.

See report submitted with 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.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated according to field inspection notes and photographic interpretation.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate, the shoreline, low-water line, piers and bulk-heads were delineated accordingly.

36. OFFSHORE DETAILS

All offshore details have been shown according to field inspection.

37. LANDMARKS AND AIDS

Eight aids and one landmark have been located for charting. One landmark has been noted for deletion. All have been reported on form 567, and submitted on June 22, 1962.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions have been made with: T-9794 to the north, T-9797 to the east. The manuscript is the southeast quarter of LEAGUE CITY quadrangle and junctions along the west and south limits.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS quadrangle LEAGUE CITY, 1:24,000 edition of 1955. Several changes were noted along Clear Creek.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with chart 1282, 1:80,000 edition of Aug. 1, 1960 corrected to Oct. 22, 1960. The chart appears to be in fairly good agreement with the manuscript.

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: 25 APR 1963

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

T-9796

49. NOTES FOR THE HYDROGRAPHER

None.

# TIDE COMPUTATION

PROJECT NO. PH-6006 T-9796

Time and date of exposure 0823 Sept 16, 1960 Reference station Galveston Mean range 0.8  
 Date of field inspection March 1961 Subordinate station Morgan Pt. Ratio of ranges 0.80

	Time		Height feet	Height x Ratio of ranges	Time		Time Corrected time at Subordinate station
	h.	m.			h.	m.	
High tide	12	50	1.3	1.0	02	29	18 47
Low tide	00	06	0.1	0.1	+10	21	+5 19
Duration of rise or fall	12	44		0.9	12	50	00 06

	h.	m.	feet	feet	Photo. No.
Time H. T. or L. T. Required time Interval	12	50	1.0	Feature bares Stage of tide above MLW Feature above MLW	605 1947 A
Time H. T. or L. T. Required time Interval	8	23	0.2	Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval	4	27	0.8	Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval				Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval				Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval				Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval				Feature bares Stage of tide above MLW Feature above MLW	
Time H. T. or L. T. Required time Interval				Feature bares Stage of tide above MLW Feature above MLW	

FIELD EDIT REPORT  
(Shoreline)  
~~Quadrangle~~ T-9796

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 manuscripts furnished this unit. This was done for the benefit of the East Coast Field Party.

The changes were then transferred to the field edit sheets included in 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 sheets.

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.

Submitted:

*William A. Rasur*

for James H. Blumer  
Lt. (jg) C&GS  
Photo Hydro Party 723

FORM 182 (3-61)		PHOTOGRAMMETRIC OFFICE REVIEW		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
50.		T. 9796			
1. PROJECTION AND GRIDS WHS		2. TITLE WHS		3. MANUSCRIPT NUMBERS WHS	4. MANUSCRIPT SIZE WHS
		4a Classification label: unclassified			
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY WHS		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) WHS		
	7. PHOTO HYDRO STATIONS XX	8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT Bridge (W.O.)	
	11. DETAIL POINTS Kelsh Plotter (I.I.S.)				
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE WHS	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. XX	15. BRIDGES WHS	
	16. AIDS TO NAVIGATION WHS	17. LANDMARKS WHS	18. OTHER ALONGSHORE PHYSICAL FEATURES WHS		
	19. OTHER ALONGSHORE CULTURAL FEATURES WHS				
PHYSICAL FEATURES	20. WATER FEATURES WHS		21. NATURAL GROUND COVER WHS		
	22. PLANETABLE CONTOURS XX		23. STEREOSCOPIC INSTRUMENT CONTOURS XX		
	24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX		
	26. OTHER PHYSICAL FEATURES WHS				
CULTURAL FEATURES	27. ROADS WHS	28. BUILDINGS WHS	29. RAILROADS WHS		
	30. OTHER CULTURAL FEATURES WHS				
BOUNDARIES	31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX		
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 William H. Shearouse			SIGNATURE OF SUPERVISOR REVIEW SECTION OR UNIT Milton M. Slattery	
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 Jack Smith			SIGNATURE OF SUPERVISOR M. M. Slattery		



GEOGRAPHIC NAMES

T-9796

(Kemah)

Bayview

Bayview Acres

Clear Creek

Clear Lake

Clear Lake Shores

Galveston Bay

Glen Cove

Glen Cove

Jarbo Bayou

Kemah

Lakeside

Robinson Bayou

Seabrook

*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 L. Lander*  
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

*J. E. Waught 1/13/65*  
Chief, Photogrammetry Division

