

9795

Original

Diag. Cht. No. 1282.

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey <u>PLANIMETRIC</u>	
Field No. <u>Ph-6006</u>	Office No. <u>T-9795</u>
LOCALITY	
State <u>TEXAS</u>	
General locality <u>GALVESTON BAY</u>	
Locality <u>RED BLUFF</u>	
<u>1960 - 1963</u>	
CHIEF OF PARTY	
Joseph K. Wilson, Chief of Field Party	
V. Ralph Sobieralski, Tampa Dist. Off.	
LIBRARY & ARCHIVES	
DATE <u>January 1965</u>	

USCOMM-DC 5087

9795

DESCRIPTIVE REPORT - DATA RECORD

T-9795

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. R. Sobieralski

INSTRUCTIONS DATED (II) (III):

Field and office (732ms) not dated (received Sept. 30, 1960)
Amendment, field and 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):

HOUSTON SHIP CHANNEL LIGHT 75, 1960

LAT: / ✓

29°36'21.478"(661.3 m)

LONG: / ✓

94°57'11.092"(298.5 m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

y = 666,759.27 FT. ✓

x = 3,285,712.17 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 (III): M. A. Stewart		DATE: February 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air photo compilation Date of photography: August 25, 1960; Sept. 16, 1960 <i>Field Edit Varnadoe 1963 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.		DATE June 1961
CONTROL PLOTTED BY (III): V. P. Cackowski		DATE Sept. 1961
CONTROL CHECKED BY (III): R. J. Pate		DATE Sept. 1961
ADDITIONAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): B. F. Lampton (W.O.)		DATE
STEREOSCOPIC INSTRUMENT COMPILATION (III): I. I. Saperstein	PLANIMETRY I. I. Saperstein	DATE Oct. 1961
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): I. I. Saperstein		DATE Oct. 1961
SCRIBING BY (III): R. Dossett Reviewed: W. H. Shearouse		DATE April 1962 " "
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation: W. H. Shearouse Drafting: " " "		DATE Dec. 1961 Oct. 1962
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild single lens "S" and "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60-W-9755 thru 9758	8/25/60	0714-0715	1:10,000	0.2
60-W-9762	"	0721	"	"
60-S-2005A	9/16/60	0916	1:30,000 dia-	0.8
60-S-2006A	"	"	" positives	"

Predicted TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Galveston	-	1.0	1.4
SUBORDINATE STATION: Morgan Point	0.8	0.8	1.1
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

DATE:

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 8

RECOVERED: 1

IDENTIFIED: 0

NUMBER OF BM(S) SEARCHED FOR (II): 0

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0

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

REMARKS:

9 triangulation stations established by intersection in 1960
(3 north of project limits)
5 triangulation stations established by intersection in 1961
(1 north of project limits)

COMPILATION RECORD

COMPLETION DATE

REMARKS

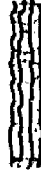
Compiled from field inspection done prior to hurricane CARLA of Sept. 11, 1961	Dec. 1961	superseded
Islands east of Galveston Channel revised from May 1962 photograph S-7189. Compilation complete	Oct. 1963	

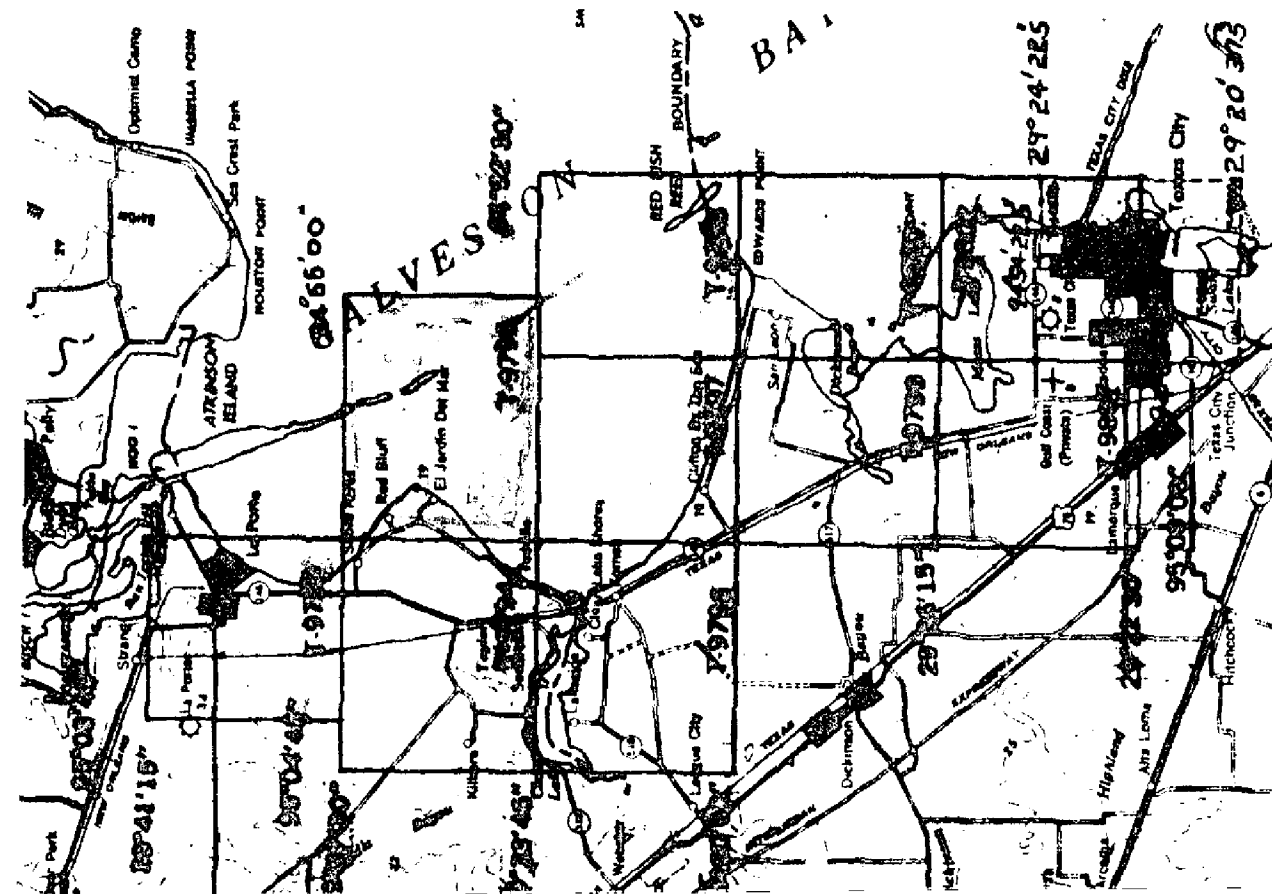
PROJECT PH-6006

Planimetric Mapping

West Shore Galveston Bay

TEXAS

1:10,000  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>

PROJECT PH-6006
Map T-9795

Please refer to Field Inspection Report submitted with Map T-9793 for all information pertaining to this map.

Submitted,

William M. Reynolds
William M. Reynolds

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORTCOAST AND GEODETIC SURVEY
CONTROL RECORD

lot 2

MAP T. 9705

PROJECT NO. Ph-6006

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR χ -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)
GALV. BAY UPPER RANGE A FRONT LT. 1961	Field Comp	NA 1927	661,996.98	3,287,870.63	20	1777.1	✓			P1. VPC	
GALV. BAY UPPER RANGE A REAR LT. 1961	"	"	657,481.44	3,289,570.49	20	0400.7	✓	see 1963		✓ RJP	9/11/61
GALV. BAY UPPER RANGE B FRONT LT. 1961	"	"	671,280.63	3,282,856.71	20	4606.7	✓	Position		"	"
GALV. BAY UPPER RANGE B REAR LT. 1961	"	"	675,172.67	3,280,047.64	20	5793.0	✓			"	"
HOUSTON YACHT CLUB DAYBN	"	"	672,286.54	3,271,951.91	20	4913.3	✓			"	"
HOUSTON CHANNEL BEACON NO. 18, 1933	PC Pg 74	"	653,559.45	3,296,069.55	19	9205.3	✓	NOTE: THIS IS HOUSTON SHIP CHANNEL LT. 68, 1960		"	"
HOUSTON SHIP CHANNEL LT. 71, 1960	Photostat W.D.	"	660,007.89	3,290,627.08	20	1170.8	✓	see 1963		"	"
HOUSTON SHIP CHANNEL LT. 72, 1960	"	"	660,340.73	3,291,171.20	20	2985.1	✓	Position		"	"
HOUSTON SHIP CHANNEL LT. 75, 1960	"	"	666,759.27	3,285,712.17	20	3228.6	✓	see 1963		"	"
HOUSTON SHIP CHANNEL LT. 76, 1960	"	"	666,960.29	3,286,330.65	20	1487.0	✓	Position		"	"
HOUSTON SHIP CHANNEL LT. 79, 1960	"	"	675,163.05	3,282,545.04	20	3289.9	✓	N		"	"
HOUSTON SHIP CHANNEL LT. 80, 1960	"	"	675,381.88	3,283,121.67	20	5856.8	✓	N		"	"

1 FT. = 3048006 METER

COMPUTED BY: H.S.

DATE Sept 5, 1961

CHECKED BY: RJP

DATE Sep 8, 61

COMM-DC-57043

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

2 of 2

MAP T. 9795 PROJECT NO. Ph-6006 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -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	
HOUSTON SHIP CHANNEL LT. 81, 1960	Photostat	N.A. 1927	677, 182.28	20	6405.6		N			PI VPC	
	W.O.		3,281,585.74	100	0229.3					V RJP 9/11/61	
FIX NO. 1	Field Comp	"	29 37 20.892					643.2		"	
			94 57 12.232					329.1		"	
FIX NO. 2	"	"	29 36 47.286					1455.9		"	
			94 57 03.912					105.3		"	
FIX NO. 3	"	"	29 36 19.644					604.8		"	
			94 56 46.920					1262.5		"	
HOUSTON SHIP CHAN. LT. 67, 1960	Photostat	"	653, 189.22	19	9092.5					"	
	W.O.		3,295,580.18	100	4494.8					"	
CONTROL PT. RED BLUFF, 1963	Field G.E.V.	"	664, 795.25	4,795.2	(204.8)					Plotted by J.H. 7/17/63	
			3,276,214.14	1,214.1	(3,785.9)					✓ " V.P.C. 7/17/63	
Sub. Pt. 1 CONTROL PT. RED BLUFF, 1963	"	"	665, 309.33	309.3	(4,690.7)					"	
			3,287,865.22	2,865.2	(2,134.8)					"	
Sub. Pt. 2 CONTROL PT. RED BLUFF, 1963	"	"	675, 858.92	858.9	(4,141.1)					"	
			3,283,531.78	3,531.8	(1,468.2)					"	
HOUSTON SHIP CHANNEL LT. 75, 1963	"	"	666, 799.75								
			3,285,710.45								
HOUSTON SHIP CHANNEL LT. 71, 1963	"	"	659, 945.89								
			3,290,666.62								
GALVESTON BAY UPPER RANGE A REAR LT. 403	"	"	657, 501.14								
			3,289,570.57								

1 FT. = 3048006 METER
COMPUTED BY: 115

DATE Sept 5, 1961

CHECKED BY: RJP

DATE Sep 8 61

COMM-DC-57843

MAP T. 9795

PROJECT NO. Ph-6006

SCALE OF MAP:

SCALE OF MAP 1:10000

SCALE FACTOR

[illegible]

1 FT. = .3048006 METER.

8.5

DATE:

0/63

CHECKED BY: _____

[Signature]

DATE _____

COMM-DC-57843

COMM
45

COMPILATION REPORT

T-9795

PHOTOGRAMMETRIC PLOT REPORT

The analytic aerotriangulation bridge was run in the Washington Office.

See report submitted with T-9803.

31. DELINEATION

The graphic method and Kelsh plotter were used in delineation. The entire mainland was delineated by the Kelsh plotter. All the offshore islands were delineated graphically utilizing three, 3 point fixes to control the photographs. Because of the poor scale of the contact photographs the projector was employed, holding the above mentioned fixes and fixed aids to navigation (triangulation stations) to control the photographs.

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

Inapplicable

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate and the shoreline was delineated accordingly. All shoreline details such as piers, groins and bulkheads have been shown according to the field inspector's notes. No low-water or shoal lines were shown.

36. OFFSHORE DETAILS

All offshore details have been shown according to the field inspection.

37. LANDMARKS AND AIDS

One (1) landmark and ten (10) fixed aids to navigation have been shown and are reported on form 567.

Four (4) fixed aids to navigation have been established north of the manuscript and outside project limits but have been listed on form 567.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions have been made with T-9794 to the west, T-9797 and T-9798 are to the south and southeast but are water areas.

Shoreline manuscript T-9920 PH-76 (51) joins to the north, but due to dredging operations and passage of time, the shoreline of Atkinson Island does not junction.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS BACLIFF quadrangle scale 1:24,000 edition of 1956. The comparison is favorable except for changes in the offshore spoil islands. There are no planimetric maps available for comparison.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with chart 1282 scale 1:80,000, edition of August 1, 1960 revised Jan. 23, 1961. The comparison is favorable except for the changes in the offshore spoil islands, and the establishment of two ranges.

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: 20 DEC 1962

V. Ralph Sobieralski
V. Ralph Sobieralski
Tampa District Officer

49. NOTES FOR THE HYDROGRAPHER

None.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE REVISED.~~
~~TO BE DELETED~~

STRIKE OUT TWO

Tampa District Office

Oct. 24

1952

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

I. I. Saperstein

V. Reim Sobieralski

Chief of Party

STATE TEXAS		DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	LATITUDE *			LONGITUDE *		D.M. METERS	°	'	D.P. METERS						
				°	'										
		HOUSTON SHIP CHANNEL													
LIGHT 67		HOUSTON SHIP CHANNEL		29 34	33.87	10.36	94 55		24.92	5/24/1960	X				1282
LIGHT 68		HOUSTON CHANNEL BEACON NO. 18 (1933)		29 34	37.306	17.306	94 55		568	"	X				"
LIGHT		GALVESTON BAY UPPER RANGE A FRONT LIGHT		29 35	33.65	24.9	94 56		512.4	2/23/1961	X				"
					10.36				48.63						
									1310						
		GALVESTON BAY UPPER RANGE A REAR LIGHT		29 34	38.33	18.33	94 56		31.14	"	X				"
					1488				838						
		GALVESTON BAY UPPER RANGE A REAR LIGHT		29 34	38.33	1488	94 56		31.14	"	X				"
					1488				338						
LIGHT 71		HOUSTON SHIP CHANNEL		29 35	40.0	12.99	94 56		18.13	5/24/1960	X				"
LIGHT 72		" "		29 35	40.0	12.99	94 56		488	"	X				"
					16.08				11.39						
					195				320						
LIGHT 75		" "		29 36	21.47	11.15	94 57		11.15	"	X				"
					561				300						
LIGHT 76		" "		29 36	23.26	04.05	94 57		04.05	"	X				"
					716				165						
LIGHT		GALVESTON BAY UPPER RANGE B FRONT LIGHT		29 37	37.21	41.74	94 57		41.74	2/23/1961	X				"
					222				112.5						
LIGHT		GALVESTON BAY UPPER RANGE B REAR LIGHT		29 37	36.67	12.01	94 58		12.01	2/23/1961	X				"
					1437				323						

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids, to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

* TABULATE SECONDS AND METERS

USCOMM-DC 16234-P&1

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

Tampa District Office

Oct. 24, 1962

I recommend that the following objects which have *(deleted from)* 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

I.I. Saperstein

V. Ralph Sobleralski

Chief of Party

STATE	TEXAS		SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	CHARTING NAME	DESCRIPTION		LATITUDE*		LONGITUDE*		DATUM							
				° ' "	D. M. METERS	° ' "	D. M. METERS								
TANK	Surf Oaks Tank			29 35	16.43		94 59	47.60	N.A.	Plot	2/10/61				1282
	Steel ht=75(80)				506			1281	1927	T-9795					

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

* TABULATE SECONDS AND METERS

FORM 182 (8-61)		50.		PHOTOGRAMMETRIC OFFICE REVIEW T- 9795		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
1. PROJECTION AND GRIDS WHS		2. TITLE WHS		4a Classification label <u>Unclassified</u>		3. MANUSCRIPT NUMBERS WHS	
4. MANUSCRIPT SIZE WHS		5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY WHS		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) XX			
CONTROL STATIONS		7. PHOTO HYDRO STATIONS XX		8. BENCH MARKS XX		9. PLOTTING OF SEXTANT FIXES XX	
		10. PHOTOGRAMMETRIC PLOT REPORT W.O.					
		11. DETAIL POINTS Kelsh (I.I.S.)					
ALONGSHORE AREAS (Nautical Chart Data)		12. SHORELINE WHS		13. LOW-WATER LINE XX		14. ROCKS, SHOALS, ETC. XX	
		15. BRIDGES XX		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 XX	
		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>				SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT <i>Milton M. Slavney</i>	
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 <i>Jack Honick</i>				SIGNATURE OF SUPERVISOR <i>M. M. Slavney</i>			

USE REVERSE SIDE FOR REMARKS

USCOMM-DC 25353-P61

FIELD EDIT REPORT T-9795
(Shoreline)

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 with this report.

The navigational aids on this sheet were located by third order triangulation methods in July 1962; the data to be forwarded by the E.C.F.P. They will be located again in May-June 1963.

The spoil islands along the ship channel will be edited along with Project Ph-6214.

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 of the map.

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

Addendum:

On the Field Edit Sheet there were two notes as follows: "Edit of Islands done on Ph-6214 see photo. 62-S-070A: and "See photo C&GS 24 May 62-S-7221 for location of wooden bulkhead. Photo was taken for Project Ph-6214 - to be sent in June '63." These photos were never received. A request was made to Mr. George E. Varnadoe in August 1963 for completion of the edit. Photo 62-S-7189 was used for the inspection and the information applied to the map manuscript in October 1963.

In lieu of a Field Edit Report, the following note is taken from Mr. Varnadoe's Field Edit Sheet"

"Small changes have occurred in the shapes of spoil islands N of Bulkhead Reef (Lat. $29^{\circ}36.2'$, Long. $94^{\circ}56.8'$). I have not attempted to show these changes as a large dredge is now working in the area and has created several spoil islands.....Pipes have been laid across Bulkhead Reef and some of the spoil islands to the north. The whole area will be much different in a few weeks. Therefore, it should be mapped as photographed and dated the day of latest photography - May 1962."

William H. Shearouse
Cartographer (Photo)
Tampa

TIDE COMPUTATION

PROJECT NO. PH-6006 T-9795

Time and date of exposure 09/16 Sept 16, 1960 Reference station GalvestonMean range 0.8Date of field inspection Feb. 1961Subordinate station Morgan PointRatio of ranges 0.80

	Time		Height feet	Height x Ratio of ranges	Time h. m.
	h.	m.			
High tide	12	50	1.3	1.0	02 29
Low tide	0	06	0.1	0.1	10 21
Duration of rise or fall	12	44		0.9	12 50

	Time		Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station	Photo. No.
	h.	m.				
Low tide at Ref. Sta.	18	47				
Time difference	5	19				
Corrected time at Subordinate station	0	06				

	h.	m.	Height feet	Height x Ratio of ranges	Time h. m.	Photo. No.
Time H. T. or L. T.	12	50	Ht. H. T. or L. T.			
Required time	9	16	Tabular correction			
Interval	3	34	Stage of tide above MLW			6052005A
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			
Time H. T. or L. T.			Ht. H. T. or L. T.			
Required time			Tabular correction			
Interval			Stage of tide above MLW			

Computed by 115 Checked by PRM

TIDE COMPUTATION

PROJECT NO. Ph. 6006 T. 9795

Time and date of exposure 0714 Aug 25, 1960

Reference station GALVESTON

Subordinate station

Mean range 0.8

Ratio of ranges 0.80

Date of field inspection

Subordinate station

Margay Point

Mean range

Ratio of ranges 0.80

	Time		Height feet	Height x Ratio of ranges	High tide at Ref. Sta. Time difference Corrected time at Subordinate station	Time	
	h.	m.				h.	m.
High tide	16	34	1.1	0.9	High tide at Ref. Sta. Time difference Corrected time at Subordinate station	06	13
Low tide	4	41	0.1	0.1	Low tide at Ref. Sta. Time difference Corrected time at Subordinate station	23	22
Duration of rise or fall	11	53		0.8	Time difference Corrected time at Subordinate station	5	19

	h. m.		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	feet	Feature bares Stage of tide above MLW Feature above MLW	feet	Photo. No.
	h.	m.					
Time H. T. L. T.	04	41	Ht. H. T. L. T. Tabular correction Stage of tide above MLW	0.1 0.1 0.2	Feature bares Stage of tide above MLW Feature above MLW		60W9755
Required time Interval	07	14					
Time H. T. or L. T.			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Required time Interval							
Time H. T. or L. T.			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Required time Interval							
Time H. T. or L. T.			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Required time Interval							
Time H. T. or L. T.			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Required time Interval							

GEOGRAPHIC NAMES

T-9795

(Red Bluff)

Bulkhead Reef

El Jardin Del Mar

Houston Ship Channel

Red Bluff

Red Bluff

Surf Oaks

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.

55. 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:

<i>Charles L. Lamm</i>	
Chief, Photogrammetric Branch	Chief, Nautical Chart Division

J. E. Waugh 1/13/65
Chief, Photogrammetric Division

