

9225

"Original"

Diag. Cht 1288

Form 504	
U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	PLANIMETRIC
Field No.	Office No. T-9225
LOCALITY	
State	TEXAS
General locality	TEXAS & MEXICO GULF COAST
Locality	MOUTH OF THE RIO GRANDE
194	
CHIEF OF PARTY Field George E. Morris, Jr., Chief of/Party Arthur L. Wardwell, Tampa Photogrammetric Office	
LIBRARY & ARCHIVES	
DATE	MAR 25 1955

B-1870-1 (1)

9225

See 9/11/55 - 9/20/55

DATA RECORD

T-9225

Project No. (II): Ph-36(48)F Quadrangle Name (IV):

Field Office (II): Brownsville, Texas

Chief of Party: George E. Morris, Jr.

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: Arthur L. Wardwell

Instructions dated (II) (III): 14 February 1949

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV): DEC 14 1951

Date reported to Nautical Chart Branch (IV): FEB 27 1952

Applied to Chart No.

Date:

Date registered (IV): 12-22-54

Publication Scale (IV): 1:20,000

Publication date (IV):

Geographic Datum (III): N. A. 1927

MHW Vertical Datum (III):

~~Mean Low Water~~ 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): RANGE 1939

Lat.: 25° 57' 49".201 (1514.1m) Long.: 97° 14' 38".604 (1074.0m)

Adjusted
~~Unadjusted~~

Plane Coordinates (IV):

State:

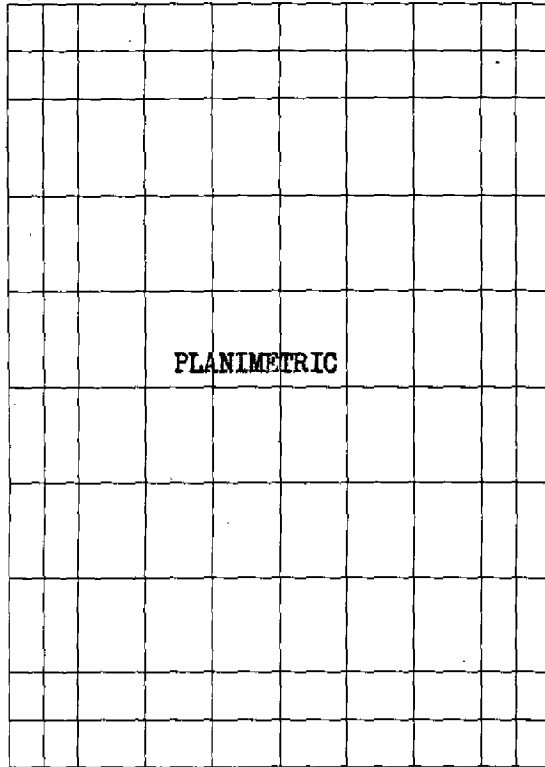
Zone:

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.



Areas contoured by various personnel
(Show name within area)
(II) (III)

DATA RECORD

Field Inspection by (II): C. A. Navin
C. H. Baldwin

Date: Oct-Nov 1949
July 1950

Planetable contouring by (II): Inapplicable

Date:

Completion Surveys by (II): *W. H. Shearouse*

Date: *8 April 1952*

Storm and

Mean High Water Location (III) (State date and method of location):

Air Photo compilation
Date of Photographs: 28 July 1950

Projection and Grids ruled by (IV): T. L. J. (W.O.)

Date: 25 Sept. 1950

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

Date: 27 Sept. 1950

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

Date: 23 Feb. 1951

Control checked by (III): M. M. Slavney

Date: 9 April 1951

Radial Plot or Stereoscopic
~~Control Extension~~ by (III): M. M. Slavney

Date: 8 June 1951

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Date:

Inapplicable

Date:

Manuscript delineated by (III): R. A. Reece

Date: 19 Oct. 1951

Photogrammetric Office Review by (III): R. R. Wagner

Date: 28 Nov. 1951

Elevations on Manuscript
checked by (II) (III): R. A. Reece

Date: 19 Oct. 1951

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

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
48-0-1492	9 Dec. 1948	10:46	1:20,000	0.5
48-0-2072				
2077 incl.	10 Dec. 1948	10:08	"	0.4
48-0-2082				
2087 incl.	10 Dec. 1948	10:20	"	-
48-0-2098				
2104 incl.	10 Dec. 1948	10:33	"	-

Tide (III)

Diurnal

Reference Station: Galveston, Texas
 Subordinate Station: Brazos Santiago
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
0.9	0.9	1.3

Washington Office Review by (IV): *C. Hanavich*
 Final Drafting by (IV): *E. B. Hunter*
 Drafting verified for reproduction by (IV): *W. O. Hallum*
 Proof Edit by (IV):

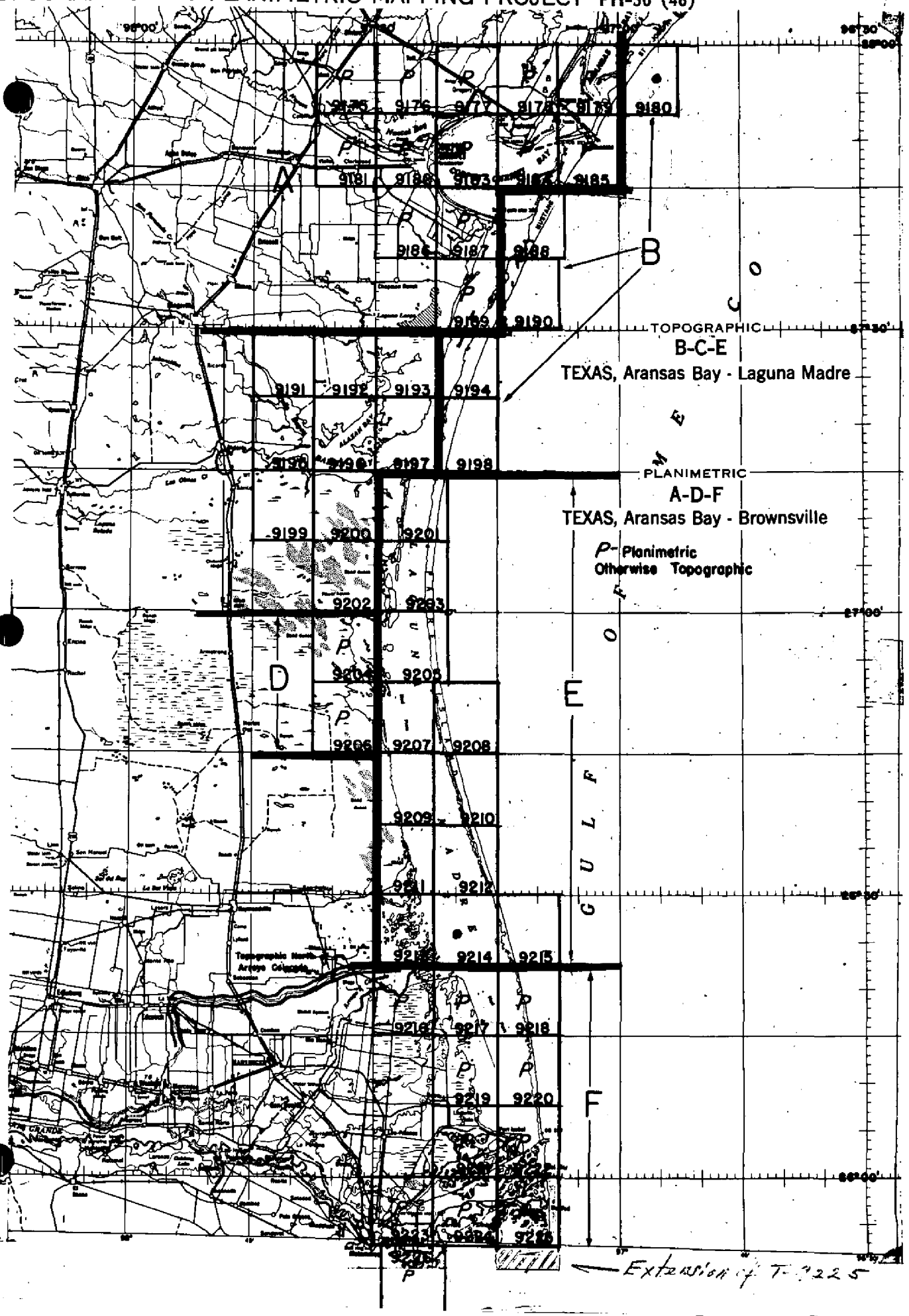
Date: *18 August 1952*
 Date: *9-21-53*
 Date: *9-22-53*
 Date:

Land Area (Sq. Statute Miles) (III): 14 with 47 south of Rio Grande
 Shoreline (More than 200 meters to opposite shore) (III): 43.0
 Shoreline (Less than 200 meters to opposite shore) (III): 52.0
 Control Leveling - Miles (II): Inapplicable
 Number of Triangulation Stations searched for (II): 6
 Number of BMs searched for (II): 20
 Number of Recoverable Photo Stations established (III): 1
 Number of Temporary Photo Hydro Stations established (III): 0

Recovered: 4
 Identified: 4
 Recovered: 17
 Identified: 14
 Recovered: 1
 Identified: 0

Remarks:

TOPOGRAPHIC AND PLANIMETRIC MAPPING PROJECT PH-36 (48)



Extension of T-3225

Summary T- 9225

Project Ph-36(48) consists of fifty-two quadrangles at 1:20,000, each 7.5 minutes in latitude and longitude, covering the Gulf Coast of Texas and the Intracoastal Waterway from Aransas Bay to Brownsville and the Mexican Border. Adjoining the project to the north is a series of shoreline surveys in Part IV of Project Ph-14(46).

Information concerning Ph-36(48) in its broader aspects will be included in a project completion report to be compiled at the conclusion of the review of all surveys in this project.

Twenty-six of the quadrangles in this project are topographic surveys and are to be published at 1:24,000 scale by the Geological Survey. The other twenty-six quadrangles are planimetric surveys. Of these, nineteen are to be used as bases by the Geological Survey for the compilation of 7.5 minute topographic quadrangles and will not be published as planimetric maps. The remaining seven, T-9175, T-9176, T-9177, T-9181, T-9189, T-9204, and T-9206, will be published as planimetric maps.

Cloth-backed lithographic prints of the original map manuscripts at compilation scale and the descriptive reports for all maps in this project will be filed in the Bureau Archives. Cloth-backed copies of the published topographic quadrangles at 1:24,000 scale will also be filed.

All project reports except the Geog. Names Report will be filed in the Project Completion Report.

2. AREAL FIELD INSPECTION

This quadrangle is located in Cameron County, Texas, on the Rio Grande.

The area covered is largely mud flats; the land area being grass flats with scattered ridges covered with brush, and the beach being sand dunes and shifting sand. A few small areas of the grass flats are under cultivation with cotton being the main crop.

There is but one good road, Texas State Highway No. 4, running east to the Gulf of Mexico.

The photography was of recent date and no difficulty was encountered interpreting the photographs. The photographic tones are from white to black. The white and light gray tones are sand and mud flats; the gray tones are grass flats and some cultivated areas; and the black tone being dense brush and scrub trees. Some of the shallow water also photographed black.

Field inspection is believed to be complete and adequate.

Field inspection was done on 1:20,000 scale single lens, ratio prints Nos. 48-0-2073, 48-0-2086, and 48-0-2099.

3. HORIZONTAL CONTROL

The following third-order traverse station, established by USGS, was recovered: TT STA 3L(USGS) 1929.

Two stations, RP 55(IBC)(USGS), and RIO GRANDE 1939, were reported lost.

Horizontal control was identified on the following single lens, 1:20,000 scale, field photographs: 48-0-2086, 48-0-2099, and 48-0-1490.

4. VERTICAL CONTROL

The following bench mark of the USGS was recovered: TT STA 3L(USGS).

The following are second-order bench marks, established by the C&GS, which were recovered: RANGE TRIANGULATION STATION, RANGE TRIANGULATION STATION RM NO 1, RANGE TRIANGULATION STATION RM NO 2, DEL MAR AZIMUTH STATION, J 50(C.Co.), J 51(C.Co.), J 52(C.Co.), J 53(C.Co.), J 54(C.Co.), C 776, D 776, E 776, and RP 54(IBC).

The following are bench marks established by the Cameron County engineer, accuracy unknown, which were recovered: J 46, J 47, and J 55. Their elevations are on Form 638 submitted for each bench mark.

As this is a planimetric quadrangle, no additional levels were run.

Bench marks were identified on the following 1:20,000 scale, single lens, field photographs: 48-0-1493, 48-0-2072, 48-0-2086, 48-0-2087, and 48-0-2099.

5. CONTOURS AND DRAINAGE

The only perennial drainage in the area is the Rio Grande.

No contours were run as this is a planimetric quadrangle.

6. WOODLAND COVER

All woodland areas have been classified according to Photogrammetry Instructions No. 15, dated 16 June 1947.

7. SHORELINE AND ALONGSHORE FEATURES

The MHWL was measured from points of identifiable objects on the photographs. The MLWL was not shown because of tidal conditions. ✓

8. OFFSHORE FEATURES

There are no offshore features.

9. LANDMARKS AND AIDS

A landmark, TOWER, on chart No. 1288, which is actually in Mexico, could not be seen from any one of several vantage points. From local inquiry, this tower has been destroyed. See Form 567.

10. BOUNDARIES, MONUMENTS, AND LINES

See "Special Report, Boundaries, Project Ph-36(48), Baffin Bay to the Rio Grande."

11. OTHER CONTROL

^{Two} One recoverable topographic station, WOLF, ^{and Del Mar Ag mk,} ~~was~~ established and identified on photograph 48-0-1492, ^{1-1493.}

12. OTHER INTERIOR FEATURES

in the U.S.

All roads in this quadrangle are Class 7, except for Texas State Highway No. 4 which is Class 2. All roads have been classified according to Photogrammetry Instructions No. 10, dated 14 April 1947, as amended.

Roads in Mexico are not classified.

All buildings have been classified according to Photogrammetry Instructions No. 29, dated 1 October 1948.

13. GEOGRAPHIC NAMES

Report on file 254 L.H.

See "Special Report, Geographic Names, Project Ph-36(48), Port Mansfield (Red Fish Landing) to the Rio Grande."

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

"Special Report, Geographic Names, Project Ph-36(48), Port Mansfield (Red Fish Landing) to the Rio Grande", forwarded to the Washington Office 6 June 1950.

" Special Report, Boundaries, Project Ph-36(48), Baffin Bay to the Rio Grande", forwarded to the Washington Office 8 June 1950.

Form 567, in triplicate, to be forwarded to Washington Office on letter of transmittal Ph-36 Field 81 at a later date.

Form 567, quadruplicate only, to be forwarded to Baltimore Office on letter of transmittal Ph-36 Field 82 at a later date.

Data, Quadrangle T-9225(), forwarded to the Baltimore Office on letter of transmittal Ph-36 Field 80, 15 August 1950.

Submitted
7 August 1950

Charles H. Baldwin
Charles H. Baldwin
Cartographic Survey Aid

Approved
15 August 1950

George E. Morris Jr.
George E. Morris, Jr.
Chief of Party

COMPILATION REPORT T-9225PHOTOGRAMMETRIC PLOT REPORT:

Submitted with T-9220.

31. DELINEATION.

Compiled by graphic method.

The scale and clarity of the photographs used for delineation were good.

The interior field inspection, north of the Mexican border, was adequate. No field inspection was made south of the Rio Grande.

32. CONTROL.

Sufficient control was identified and density and placement were good. *Refer to Descriptive Report for T-9220 for listing of control on this map.*

33. SUPPLEMENTAL DATA.

None

34. CONTOURS AND DRAINAGE.

The Rio Grande is the only drainage of any importance. Contours are inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS.

The field inspection of the storm water line, north of the Rio Grande, was inadequate and inconsistent. Stereoscopic examination shows the storm water line to be more nearly in the position shown on the manuscript. A check is requested of the field editor.

36. OFFSHORE DETAILS.

None.

37. LANDMARKS AND AIDS.

None.

38. CONTROL FOR FUTURE SURVEYS.

One (1) recoverable topographic station is being submitted on Form 524 and is listed under Item 49.

39. JUNCTIONS.

Satisfactory junctions have been made as follows:

Survey T-9222 on the north
Survey T-9224 on the west
Project limits are to the east and south.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with U. S. Geological Survey Quadrangle MOUTH OF RIO GRANDE, TEXAS, scale 1:31,680, edition of 1936, reprinted in 1945. No major changes were noted.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with U. S. C. & G. S. Nautical Chart 1288, published September 1941 (3rd edition) and corrected to October 13, 1950. Areas shown north of the RIO GRANDE are comparable and in good agreement.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Richard A. Reece
Richard A. Reece
Carto. Photo. Aid

APPROVED AND FORWARDED:

Arthur L. Wardwell
Arthur L. Wardwell, Chief of Party

48. GEOGRAPHIC NAME LIST.

- BOCA CHICA
- BOCA CHICA BAY
- BOCA CHICA BEACH
- BOCA CHICA ROAD
- BRAZOS ISLAND
- CAMERON COUNTY
- ~~COMMISSIONERS PRECINCT NO. 2~~
- GULF OF MEXICO
- ~~LAGUNA MADRE~~
- LOMA DE LA ESTRELLA
- LOMA DE LA LENA SECA
- LOMA DE LA PITA
- LOMA DE LAS VACAS
- LOMA DE LOS EBANITOS
- LOMA DE LOS TEQUIOS
- LOMA DEL BURRO
- LOMA PELONA
- LOMA PLATA
- Los Montes
- MESA DEL GAVILAN
- MEXICO
- MOUTH OF RIO GRANDE
- PORT ISABEL PUMPING STATION
- RIO GRANDE
- STATE NO. 4
- STELL-LIND BANCO NO. 128
- TAMAULIPAS
- TEXAS
- UNITED STATES
- VERDOLAGA LAKE
- WHITE RANCH (not white Raven)

Precincts were not mapped on this project in accordance with user instructions.

(name a.k. if properly to be applied here) Project Names Report approves name at this position.

for all of these Spanish names, use lower case d and t unless the name is printed entirely in capital letters

*Names underlined in red are approved
8-15-52.
L. Hecy*

49. NOTES FOR THE HYDROGRAPHER:

The following is a topographic station that may be of
use to the hydrographer:

WOLF 1950

Del Mar AzMK (1939), 1950

TIDE COMPUTATION

PROJECT NO. Ph-36(48)T-9225

Time and date of exposure 10:08 10 Dec. 1948

Reference station Galveston, Texas

Mean range 0.9

Date of field inspection 3 August 1950

Subordinate station Brazos Santiago

Ratio of ranges 0.9

	Time		Height feet	Height x Ratio of ranges	Time	
	h.	m.			h.	m.
High tide	13	00	0.6	0.54	13	00
Low tide	7	05	0.1	0.09	0	40
Duration of rise or fall	5	55		0.45	12	20

	h. m.		feet	feet	Photo. No.
	h.	m.			
Time H. T. or L. T. Required time Interval	12	20	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	0.5 0.1 0.4	Feature bares Stage of tide above MLW Feature above MLW
Time H. T. or L. T. Required time Interval	10	08	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW
Time H. T. or L. T. Required time Interval	2	12	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW

M-2617-12

Computed by Richard A. Reece

Checked by Robert R. Wagner

5

50. PHOTOGRAMMETRIC OFFICE REVIEW
T- 9225

1. Projection and grids R.R.W. 2. Title R.R.W. 3. Manuscript numbers R.R.W. 4. Manuscript size R.R.W.

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy M.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) R.R.W. 7. ~~Vertical control stations~~ 8. Bench marks R.R.W. 9. ~~Photogrammetric plot report~~ 10. Photogrammetric plot report R.R.W. 11. Detail points R.R.W.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline R.R.W. 13. Low-water line R.R.W. 14. ~~Other alongshore physical features~~ 15. ~~Other alongshore cultural features~~ 16. ~~Other alongshore physical features~~ 17. ~~Other alongshore cultural features~~ 18. Other alongshore physical features R.R.W. 19. Other along-shore cultural features R.R.W.

PHYSICAL FEATURES

20. Water features R.R.W. 21. Natural ground cover R.R.W. 22. ~~Other physical features~~ 23. ~~Other physical features~~ 24. ~~Other physical features~~ 25. ~~Other physical features~~ 26. Other physical features R.R.W.

CULTURAL FEATURES

27. Roads R.R.W. 28. Buildings R.R.W. 29. ~~Other cultural features~~ 30. Other cultural features R.R.W.

BOUNDARIES

31. Boundary lines R.R.W. 32. ~~Other boundaries~~

MISCELLANEOUS

33. Geographic names R.R.W. 34. Junctions R.R.W. 35. Legibility of the manuscript R.R.W. 36. Discrepancy overlay R.R.W. 37. Descriptive Report R.R.W. 38. Field inspection photographs R.R.W. 39. Forms R.R.W.

40. Robert R. Wagner Reviewer William A. Rasure 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:

Field Edit Report, T-9225

51. Methods.--All roads were travelled by truck to check their classification and to answer questions asked by the reviewer. All other features were verified as to their classification and existence. In areas inaccessible by roads driving was done cross-country in a Jeep.

Additions, corrections, deletions and all field edit information will be found on the Discrepancy Print, Field Edit Sheet and photographs 48-0-2073, 2086 and 2099.

Violet ink was used for additions and corrections; green for deletions.

52. Adequacy of compilation.--Delineation of the map details is adequately done and will be complete after application of field edit information.

53. Map accuracy.--No testing was done.

54. Recommendations.--None offered.

55. Examination of proof copy.--It is recommended that the proof copy of the map be sent to Mr. F. L. Rockwell for examination. He is Engineer for the City of Brownsville, a life-long resident, intimately acquainted with the area and believed to be qualified to make the examination. His address is City Hall, Brownsville, Texas.

No discrepancies were noted in charted names. They were verified by personnel of the office of the Corps of Engineers, Brownsville.

Respectfully submitted,
8 April 1952

William H. Shearouse
William H. Shearouse,
Cartographer

REVIEW REPORT
Planimetric Map T-9225
18 August 1952

62. Comparison with Registered Topographic Surveys:

T-453	(1854)	1:20,000
T-6706b	(1939)	1:20,000

The old topographic surveys are superseded by the new map (T-9225) for nautical charting.

63. Comparison with Maps of Other Agencies:

Mouth of Rio Grande Quadrangle, USGS, Edition 1936,
Reprint 1945, 1:31,680.

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

Chart No. 1288, 15 January 1951, 1:80,000

The approximate coast shoreline indicated on this chart between latitudes $25^{\circ} 50'$ and $25^{\circ} 53'$ is not in agreement with the delineated shoreline on the new map (part two of two, which is an extension of sheet T-9225).

66. Adequacy of Results and Future Surveys:

The compiled portion of the map, which lies north of the Rio Grande River (in the U.S.) complies with the National Map Accuracy Standards. A definite statement on the accuracy of the map south of the Rio Grande River cannot be made; however, it is believed to be satisfactory. For additional information refer to the Descriptive Report for T-9220, page 13, side heading 23. No field inspection or field edit of the area south of the Rio Grande (in Mexico) was made; this is in accordance with the instructions.

In the Laguna Madre and similar areas, the water stages vary widely with meteorological conditions. In view of this, it was decided to omit the high-water line where it is indefinite and unmarked by visible evidence on the ground, and in its place to indicate by a broken line symbol the approximate limits of areas which were subject to inundation. This decision was arrived at mainly for these reasons:

- (1) The difficulty found in identifying the MHW line from photographs of this as well as other similar areas throughout the project.
- (2) It was considered impractical to resolve this problem by extensive leveling.

For a more detailed study and investigation of this matter, refer to the correspondence and sundry reports to be attached to the completion report which will be submitted when the reviews of all the surveys in this project are completed.

The reasons and the decision reached in adopting the special treatment accorded to the shoreline delineation are discussed in the pages of correspondence and instructions attached to the Descriptive Report for T-9214.

Reviewed by:

Charles Hanavich
Charles Hanavich

Approved:

L.C. Lamb 23 Dec 1954
Chief, Review Section
Division of Photogrammetry

H. Edmonstone
Chief, Nautical Chart Branch
Division of Charts ⁶⁷¹

Max R. Petto
Chief, Div. Photogrammetry

Carl O. Heaton B
Chief, Div. Coastal Surveys

