

Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

Topographic] HIGHEOGRAPHIC

T-6703 Sheet No.s. 1-6704

W. S. COAST & CERRETIC SURVEY LIBRARY AND ARCHIVES

JUL 24 1940

AGG. No.

State TEXAS

LOCALITY

WEST GULF of Mexico

PADRE ISLAND

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U. S. GOVERNMENT PRINTING OFFICE

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TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter T-1-A-B

REGISTER NO. 6703 a & b T67	03 aa
StateTexes	
General locality West Gulf of Mexico	
Locality Padre Island	
Scale 1:20,000 Date of survey May	
Vessel HYDROGRAPHER	
Chief of Party G.C. Mattison	
Surveyed by E.C. Baum	
Inked by E.C. Baum and P.A.Weber	
Heights in feet above to ground to tops of	
Contour Approximate contour Form line interval	feet
Instructions dated February 17	19 37
Remarks: Project HT-214	

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter T-2-A-B

REGISTER NO. 6704 a & b T6704 a & b

State TEXAS

General locality West Gulf of Maxico

Locality Padre Island

Scale 1:20,000 Date of survey May 19 39

Vessel HYDROGRAPHER

Chief of Party G.C. Mattison

Surveyed by E.C. Baum and P. A. Weber

Heights in feet above to ground to tops of trees

Contour Approximate contour Form line interval feet

Instructions dated Februaryn17 19 37

Remarks: Project HT-214

U. S. GOVERNMENT PRINTING OFFICE: 1928

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field Letter T-3-A-B

REGISTER NO. 6705 a & b T6705 a & b

State TEXAS

General locality West-Gulf Mexico

Locality Padre Island

Scale 1:20,000 Date of survey May , 1939

Vessel HYDROGRAPHER

Chief of Party G.C.Mattison

Surveyed by E.C.Baum

Inked by E.C.Baum and P.A.Weber

Heights in feet above to ground to tops of trees

Contour Approximate contour Form line interval feet

Instructions dated February 17 , 19 37

Remarks: Project HT-2.14

U. S. GOVERNMENT PRINTING OFFICE; 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

L. O. COLBERT, DIRECTOR

DESCRIPTIVE REPORT

TOPOGRAPHIC SHEETS 6703, 6704, 6705

WEST GULF

PADRE ISLAND

TEXAS

SHIP HYDROGRAPHER GALVESTON, TEXAS

G.C.MATTISON CHIEF OF PARTY

DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEETS 6703, 6704, 6705

AUTHORITY

Instructions dated February 17, 1937.

GENER AL

This report covers three sheets extending from latitude 27-00 to latitude 26-13. All three sheets are on Padre Island, which is in general, a low sandy island, with dunes of varying height scattered over its length. These are not prominent as landmarks, and shift position constantly.

There are no settlements af any kind on this part of the island. ~

Hydrographic Features:

The Gulf of Mexico lies to the east of all the land area on these sheets.

LANDMARKS

The only landmark is the boiler of a grounded boat in latitude 26 degs. 41 mins. 1257 meters; longitude 97 degs. 19 mins. 230 meters, which lies about 30 meters outside the high water line.

CONTROL

The sheets are controlled by triangulation stations spaced at convenient intervals.

Standard methods were used; along the beach where the visibility was poor due to haze caused by the wind blowing the sand, a 300 foot
steel tape was used to measure between stations.

GEOGRAPHIC NAMES

All names on the sheet are well established.

CONCLUSION

Magnetic declinometer observations were taken at all stations marked magnetic.

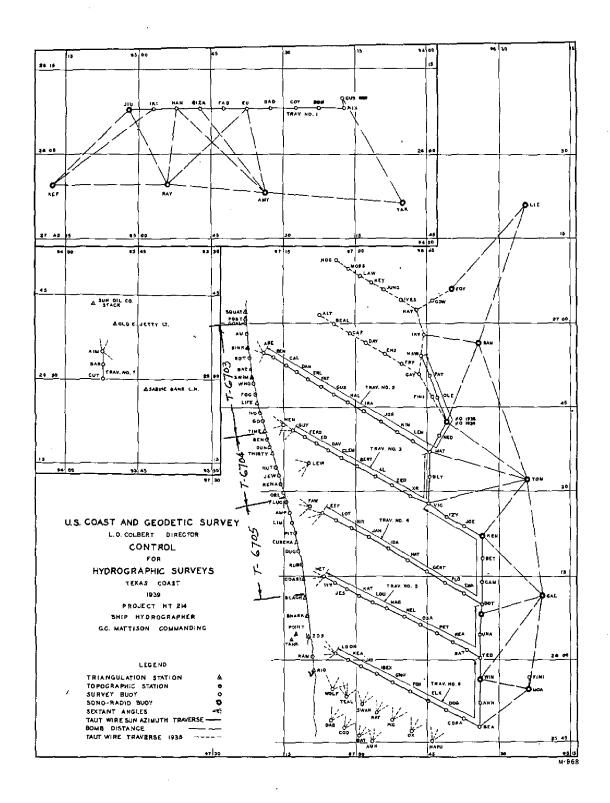
Only the high water line on the Gulf side of the island was located; see Director's letter of January 5, 1939 copy attached.

Philip a. Weber

Forwarded Approved:

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POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

Refer to: 22/MEK

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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

January 5, 1939.

To: Commanding Officer,

U. S. Coast and Geodetic Survey

Ship HYDROGRAPHER, P. O. Box 565, Galveston, Texas.

From:

The Director,

U. S. Coast and Geodetic Survey.

Subject: Topography of Padre Island.

Your letter of December 6, 1938 has received careful consideration. It has been decided that air photographic surveys of the barrier islands between Corpus Christi Pass and the Rio Grande are not necessary at this time and that, owing to the pressure for work in other localities, the expense of the pressure for work in other localities, the expense of this area are accordingly being deferred until some future date. However, in view of the conditions mentioned in your letter, paragraph 8 of the instructions for Project HT-214, dated February 17, 1937, is hereby modified to the extent that for the remainder of your topographic work along these barrier islands a delineation of the shore line on the Gulf side of these two islands is all that is desired except that in the case of indentations or breaks in the shore line the shore line at such places shall be surveyed a reaso somable distance back from the general trend of the coast line.

(Signed) L. O. Colbert Director. Statistics for Topographic Sheets T-6703a & b, T-6704a & b and T-6705a & b.

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MEMORANDUM IMMEDIATE ATTENTION

			received July 24, 1940
SURVEY DESCRIPTIVE REPORT	xkkxxxxkx	T6703 a & b	registered July 26, 1940 verified
PHOTOSTAT OF	No. T	T6704a&b	reviewed
ĺ		T6705a & b	

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

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RETURN TO

82 T. B. Reed

VIBOR

Form 567 Rev. March 1935

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Pensacola, Florida

Wareh 23, 1940193

TO BE CHARTED STRIKE OUT ONE

The positions given have been checked after listing.

I recommend that the following objects which have (hancement) been inspected from seaward to determine their value as landmarks, be charted on (delated from) the charts indicated.

G.C. Mattison

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GENERAL West		NAME A	BOILER (Wreck)										

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." 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.

U. S. GOVERNMENT PRINTING OFFICE

DIVISION OF CHARTS

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEYS NO. 6703a to 6705b (1939) FIELD NO. T-1A to T-3B

Texas, Gulf of Mexico, Padre Island Surveyed in May 1939, Scale 1:20,000 Instructions dated February 17, 1937 (HYDROGRAPHER)

Plane Table Survey

Aluminum Mounted

Chief of Party - G. C. Mattison. Surveyed by - E. C. Baum. Inked by - E. C. Baum; P. A. Weber. Reviewed by - J. A. McCormick, August 16, 1940. Inspected by - H. R. Edmonston.

1. Junctions with Contemporary Surveys.

T-6703a (1939), most northerly of the six surveys, joins satisfactorily with the tape traverse shoreline plotted directly on H-6397 (1938). The junction of T-6705b (1939) with T-6706a (1939) on the south is also satisfactory. The six subject surveys are in excellent agreement where they join each other.

2. Comparison with Prior Surveys.

T-1476a & b (1879-80) 1:20,000; T-1477a & b (1879-80), 1:20,000; T-1676 (1879-81) 1:20,000; T-1677 (1879-81), 1:20,000; T-1678 (1881), 1:20,000.

Shoreline changes in varying amounts have taken place in the interim between old and new surveys. South of latitude 26° 25', the recession averages about 200 meters. North of latitude 26° 25' the recession gradually decreases to good agreement at latitude 26° 45°. Thence northward begins an advance which increases to a maximum of 70 meters at the limits of T-6703a. The 200 meter recession in latitude 26° 20' places the Gulf coast of the island back of the 1879-81 determination of the Laguna Madre side. Geological Survey maps (Padre Island quadrangles 1 🕥 to 3) show a considerable widening of the barrier beach at this point since 1879-81. It is interesting to note that the Geological Survey maps, which were compiled in 1930 from aerial photographs, show the shoreline on the Gulf side of the island differing in some places from that of the present surveys by amounts approaching those between the present surveys and the surveys of 1879-81. This might indicate that the changes have been most pronounced since 1930 but it

is also probable that advances and recessions are more or less periodic. The present survey satisfactorily delineates the Gulf shoreline of the island and supersedes the surveys of 1879-81 in the common area.

Comparison with Chart 1287 (New Print of Feb. 4, 1935) 3. Chart 1288 (New Print of Nov. 3, 1939).

Topography charted in the area covered by the present survey is from surveys of 1879-81 discussed in the preceding paragraph. It is noted that the buff color has been omitted on both charts from form lines indicating sand dunes, thus giving the impression of innumerable small lakes on the barrier island.

4. Condition of Survey.

Satisfactory.

5. Compliance with Instructions for the Project.

Strict compliance with instructions for the project and with those contained in the Director's letter of January 5, 1939 (copy attached to descriptive report) would have required resurvey of the Laguna Madre shoreline in the vicinity of latitude 26° 20' but Geological Survey maps discussed in paragraph 2 supply sufficient information for present chart compilation. It is evident, however, that the deferred air photographic surveys (Director's letter) will reveal extensive changes in the unsurveyed area.

6. Additional Field Work Recommended.

See preceding paragraph.

7. Superseded Surveys.

> T-1476a & b in part T-1477a & b in part T-1676 in part

T-1677 in part T-1678 in part

Examined and approved:

T. B. Reed,

Chief. Section of Field Records.

Chief, Division of Charts.

Section of Field Work.

Chief, Division of H. & T.