**U. S. COAST AND GEODETC SURVEY**
**DEPARTMENT OF COMMERCE**

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Topographic</th>
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</thead>
<tbody>
<tr>
<td>Field No.</td>
<td></td>
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<tr>
<td>Office No.</td>
<td>T-478</td>
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**LOCALITY**

<table>
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<tr>
<td>General locality</td>
<td>Galveston Bay</td>
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<tr>
<td>Locality</td>
<td>Trinity Island</td>
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</table>

**1961**

**CHIEF OF PARTY**

- **Hodir, J.R. Chief of Field Party**
- **Paton, Baltimore Photo. Office**

**LIBRARY & ARCHIVES**

**DATE** Apr. 5, 1955
Past Applied to chart 12-90 11/14/1950 L.S.E.

Applied Chart 523 3-21-66 HR

(Applied to Packer Channel (App. updated with 1967 plot)
1-28-70 R.R. Youngblood - Chart 843-SC)
DATA RECORD

L-9188

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


Instructions dated (II) (III):
14 February 1949 Supplement No. 2 (field) 26 July 1949
Supplement No. 2 " 28 July 1949
Office compilation assignment 8 June 49

Copy filed in Division of
Photogrammetry (IV)
Office Files

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III): Not applicable

Scale Factor (III): none

Date received in Washington Office (IV): Oct 25-50 Date reported to Nautical Chart Branch (IV): Sept 13-50

Applied to Chart No. 1216 Date: 11-14-50 Date registered (IV): 4-7-53

Publication Scale (IV): 1:4,000 Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water
Shoreline at MHW (Gulf Coast)
Shoreline at HW (Bay side)

Reference Station (III): FLAT, 1933

Lat.: 27° 41' 41.686" 1283.1m Long.: 97° 11' 02.298" 63.0m Adjusted

Plane Coordinates (IV):
State: Texas Zone: S

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.
All contours by James H. Clark

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

Field Inspection by (II): J.H. Clark  
Date: March, April 1949

Planetary contouring by (II): J.H. Clark  
Date: March, April 1949

Completion Surveys by (II): W.H. Shearouse  
Date: Oct 1951

Mean High Water Location (III) (State date and method of location): Identified on field photographs, 8-9 Dec 1948. Supplemented with nine lens photos taken 4 May 1950 (no field identification on these)

Projection and Grids ruled by (IV): T.L.J  
Date: 13 September 1949

Projection and Grids checked by (IV): T.L.J  
Date: 13 September 1949

Control plotted by (III): W.L. Lineweaver  
Date: 15 September 1949

Control checked by (III): F.J. Tarcza  
Date: 19 September 1949

Radial Plotting
Stereoscopic

Contouring by (III): F.J. Tarcza  
Date: 27 September 1949

Stereoscopic Instrument compilation (III):

Planimetry

Contours

Manuscript delineated by (III): R.R.Hartley  
F.M.Wisiecki  
M.F.Kirk  
J. Councill  
Date: 14 Feb 50  
4 April 50  
21 Apr 50  
10 Oct. 50

Photogrammetric Office Review by (I): M.F. Kirk  
Date: 19 Oct. 50

Elevations on Manuscript checked by (I) (III): M.F. Kirk  
Date: 18 Oct. 50
PHOTOGRAPHS (III)

<table>
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<th>Stage of Tide</th>
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<tr>
<td>1102 to 1104</td>
<td>12-8-48</td>
<td>1028</td>
<td>1:20,000</td>
<td>Negligible in Corpus Christi Bay and the Laguna Madre.</td>
</tr>
<tr>
<td>1126</td>
<td></td>
<td>1046</td>
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<td></td>
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<tr>
<td>1127</td>
<td></td>
<td>1047</td>
<td></td>
<td></td>
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<tr>
<td>1128 - 1129</td>
<td>12-9-48</td>
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<td></td>
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<tr>
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<td>1664 - 1665</td>
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<td>1666 - 1667</td>
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For Additional photographs see list under "Remarks"

Tide (III)

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<th>Mean Range</th>
<th>Spring Range</th>
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<tbody>
<tr>
<td>1.0</td>
<td>1.0</td>
<td>1.4</td>
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</table>

The mean range of tide in Laguna Madre is less than 1.0 ft.

Date: 6-10-52

Reference Station: Galveston
Subordinate Station: Aransas Pass
Subordinate Station: Gulf Coast

Washington Office Review by (IV): L. Martin

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 13
Shoreline (More than 200 meters to opposite shore) (III): 40
Shoreline (Less than 200 meters to opposite shore) (III): 5
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 8
Number of BMs searched for (II): 3
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): none

Remarks:

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<td>1740 - 1741</td>
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<td>Negligible in Corpus Christi Bay and the Laguna Madre.</td>
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<td>5-4-50</td>
<td>1434</td>
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<tr>
<td>25,753</td>
<td>5-4-50</td>
<td>1435</td>
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<td>5-4-50</td>
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<td>9-17-51</td>
<td>1:10,000</td>
<td>(NAVY - Shamrock Island)</td>
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Form T-Page 4
Project Ph-35(h) 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 Mexico Border. Adjoining the project to the north is a series of shoreline surveys in Part IV of Project Ph-69(h).

Information concerning Ph-36(h) in its broader aspects will be included in a project completion report to be compiled at the conclusion of the series of aerial 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 base 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-9201, and T-9206, will be published as planimetric maps.

Cloth-backed lithographs 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 special reports except the Geog. Names Report will be filed in the Project Completion Report.
2. AREAL FIELD INSPECTION:

This quadrangle includes the southeast portion of Corpus Christi Bay, the north end of Laguna Madre, approximately the southern half of Mustang Island, the northern tip of Padre Island, and the extreme northeastern tip of the Encinal Peninsula. Also included is the northern end of that recently-dredged section of the Intracoastal Waterway, running from Corpus Christi Bay to Port Isabel, Texas.

All field work was done on the following control points: 48-0-1659 to 48-0-1667 inclusive; 48-0-1605-48-0-1613 inclusive and the following ratio prints: 48-0-1103-48-0-1104 inclusive and 48-0-1126-48-0-1129 inclusive. Additional shoreline work will be found on control print 48-0-1741.

Laguna Madre is a long narrow bay which, without channel dredging, would be too shallow for any considerable navigation. Corpus Christi Pass, formerly dividing Mustang Island from Padre Island, is now completely closed. At different times in the past, from the appearance of the area, the pass must have been at three or four different locations. At present, there are three different areas, each approximately one mile apart, any one of which could become the next open pass, from storm and tidal action. An unusually strong east wind (40 mph or more) causes a little water from the Gulf to flow across all these areas.

The Gulf beach contains an area of soft sand, about 200 feet in width, almost flat, and littered with driftwood, extending between the high water line and the sand dunes. The outer edge of the beach is used as a road by surf-fishermen coming south from Port Aransas. Unusually high tide, or an unusually strong east wind makes the beach almost impassable, except for four-wheeler drive vehicles.

There is a new Laguna Madre Causeway now under construction, from the mainland across Laguna Madre. The eastern end of the causeway is to coincide with the former Don Patricio Causeway. From the east end of the new causeway, a new road is to be constructed east and south to the vicinity of "Four Mile Hill," where Nueces County Padre Island Park is to be established. A swing-bridge is to be built across the Intracoastal Waterway.

One PI of the road to Nueces County Padre Island Park was located on Photo 48-0-1667. The point is tentative and the final
location of the road and park was left for the field editor.

In general, these portions of Padre and Mustang Islands consist of comparatively high grass-covered sand dunes near the Gulf Beach, almost-flat grass-covered cattle-grazing area down the center of the island, and either shifting sand or soft sand flats near the shores of Laguna Madre and Corpus Christi Bay.

3. HORIZONTAL CONTROL:

All U.S. Coast and Geodetic Survey Stations were searched for or recovered. All recovered stations were identified on the photos. "GRANTS 2, 1912" was reported lost.

4. VERTICAL CONTROL:

Mustang Island Tidal Bench Marks 1, 2 and 3 were recovered and identified. There is no other monumented vertical control.

A fly-level line was run from Mustang Island Tidal BM 1 south to Padre Island, across Laguna Madre to USE Stations 8 and 9, and back across Laguna Madre to Mustang Island Tidal BM 1, establishing level points 88-1 to 88-8. A closed loop was run from level point 88-6 south through quadrangles T-919 ( ), and T-9189 ( ), and back to 88-6, to establish an elevation on topographic station "WINE" for future use. A short loop was run from Bench Mark M-610 through X 909, USE stations 8 and 9, and back to M-610, establishing a datum plane difference. The U.S. Engineer elevations are 1.02 feet higher than the U.S.C. & G.S. datum of MSL 1929.

Another line of fly-levels was run from Mustang Island Tidal BM-1 across the island, north up the beach, and back to Mustang Island Tidal BM 2, establishing level points 88-9 to 88-17.

5. CONTOURS AND DRAINAGE:

Planetary contouring was done on Ratio Prints 48-0-1102 to 48-0-1104, incl., 48-0-1128 and 48-0-1129.

In general, it can be said that all areas above five feet in elevation on these portions of Padre and Mustang Islands are sand dunes. For that reason, there is no real drainage pattern, as such.
With few exceptions, contouring of individual sand dunes is hardly possible nor practical at the scale of the photographs. Consequently, contours have been generalized. For example, an almost-continuous row of closely spaced sand dunes is contoured as a ridge. Elevations of all prominent high points are shown, along with those of important saddles and low points. Relatively unimportant elevations taken from contouring are not shown. Use of the five-foot contour in the central, grassy part of the island was comparatively difficult to decide. Sand dunes in this area range from small isolated dunes to a density of small dunes, closely-spaced enough to be contoured. At times, density, rather than strict elevation, was the criterion for contouring.

Prominent and other important elevations are shown in areas of shifting sand, although such areas were not contoured.

It will be noted that all high elevations, and some small contours are shown on spoil islands in Laguna Madre. These islands are not composed entirely of soft sand as might be expected. Along with the sand there is a considerable amount of shell, and some clay. Some grass and weeds are in evidence, though usually lacking sufficient density to photograph.

6. WOODLAND COVER:

There is no woodland cover within this quadrangle.

7. SHORELINE AND ALONGSHORE FEATURES:

The mean high water line of the Gulf of Mexico is shown by measurements, on the contact prints 48-0-1605 to 48-0-1613 inclusive. The mean high water line along Corpus Christi Bay and Laguna Madre is shown on contact prints 48-0-1659 to 48-0-1667 inclusive. This was more difficult, and was determined by various means. Direct inspection and linear measurements were used, where possible. In extremely flat areas of the shoreline, the mean high water line was determined by planable. This method was also used on the islands in Laguna Madre, and is shown on ratio prints 48-0-1128 and 48-0-1129. The shoreline of the extreme northeast tip of the Encinal Peninsula is shown on contact print 48-0-1840. The water level of Laguna Madre has a variation due more to wind than to tidal action. The elevation
taken to be the mean high water line of Corpus Christi Bay and Laguna Madre for this area is 0.2 ft. Basis for this assumption is half tide level for Mustang Island Tidal bench marks.

The mean low water line was not shown on the photographs, since any feasible determination would still be extremely doubtful. However, the approximate mean low water line of the Gulf of Mexico, in this area, is approximately five meters from the mean high water line.

There is one small pier, shown on contact print 48-0-1667, and one dock, shown on contact print 48-0-1660.

8. **OFFSHORE FEATURES:**

There are no visible offshore features in the Gulf of Mexico. Those in Laguna Madre are noted on the photographs.

9. **LANDMARKS AND AIDS:**

There are no suitable landmarks along the Gulf shore, nor any aids to navigation in nearby Gulf Waters. Aids to Navigation along the Intracoastal Waterway, in Laguna Madre, are discussed in "Special Report, Location of Aids to Navigation, Project Ph-36(48), Baffin Bay to Latitude 28° 00'."

The daybeacons along the former Navy Crash Boat Channel were located by theodolite cuts from photo points. These aids are not listed and were treated as private aids to navigation by this party.

10. **BOUNDARIES, MONUMENTS AND LINES:**

See "Special Report, Boundaries, Baffin Bay to Latitude 28° 00', Project Ph-36(48)."

11. **OTHER CONTROL:**

One topographic station was established for additional control, on a previously-set monument "NEEL 597", shown on Photo 48-0-1104.
12. OTHER INTERIOR FEATURES

All roads in the area have been classified according to Photogrammetry Instructions No. 10, dated 14 April 1947 as amended 24 October 1947. There are no bridges over navigable waters in the area. However, it is expected that within a few months there will be swinging barge type bridge across the Intracoastal Waterway, as a part of the Laguna Madre Causeway, now under construction. Buildings to be shown have been circled in red ink on the photographs, and classified according to Photogrammetry Instructions No. 29, dated 1 October 1948. There are no airfields for land planes in the area. There is one landing area for seaplanes in the extreme northwest corner of Laguna Madre. However, this appears to have been abandoned, in favor of a portion of Corpus Christi Bay adjacent to the Naval Air Station.

13. GEOGRAPHIC NAMES

See "Special Report on Geographic Names to be submitted at a later date.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA.


Special Report, Geographic Names, Baffin Bay to Latitude 28° 00', Project Ph-36(48), to be forwarded later.

Forms 567 forwarded to Washington 1 July 1949.


Submitted:

Isaiah Y. Fitzgerald
Cartographer.

Approved:

George E. Morris, Jr.,
Chief of Party.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
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<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR Projection Line in Meters</th>
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<td>N.A. 1927</td>
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1 FT. = 0.040008 METER
COMPUTED BY: M.F. Kirk  DATE: 6 Sept. 1949
CHECKED BY: J. Steinberg  DATE: 9/14/49
PHOTOGRAMMETRIC PLOT REPORT


31. DELINEATION

This survey was delineated by graphic methods.

The photographs used in the delineation were flown in December 1948 with June 1949 field inspection. These were supplemented with May 1950 photographic coverage with no field inspection.

32. CONTROL

Identification and density of control is considered adequate.

33. SUPPLEMENTAL DATA

Blueprint plans of the new Laguna Madre Causeway (in Nueces Co., Texas) 1948, were used to determine the types of bridges over the Intracoastal Waterway over a strait just to the east of the Intracoastal Waterway.

34. CONTOURS AND DRAINAGE

See Par. 5 of Field Report.

Spot elevations have been shown on the highest located on Demit I. since space would not permit delineating the 15 and 20 foot contours.

35. SHORELINE AND ALONGSHORE DETAILS

See par 31, this report, regarding the photographic coverage and field inspection supplied for the delineation of this manuscript.

The June 1949 field inspection of the shoreline was used where possible. Where this conflicted with the field inspection on the 1950 photographs, the latter was used (Note: The 1950 field inspection was used by analogy only, as the areas inspected were outside the limits of this manuscript).

Where the 1950 photographic coverage clearly indicated new construction, and/or, shoreline changes had taken place these conditions were delineated by office inspection.

In doubtful areas the storm water line was delineated in lieu of the mean high water line in accordance with Supplement No. 1, Field Instructions, Project Ph-36(48), dated 24 February 1950.

The Shallow Areas were delineated by office inspection.

36. OFFSHORE DETAILS

No comment.
37. LANDMARKS AND AIDS

There are no landmarks within the area of this manuscript.

Form 567 for Nonfloating Aids is being submitted with this report.

The daybeacons along the Navy Crashboat Channel and around the Seaplane Operating Area were plotted from information supplied by the field party. The numbers appearing with these daybeacons are arbitrary ones assigned in the field.

Photo Pt "C" (one of the points used to control the location of the aformentioned daybeacons) using the horizontal angles furnished by the field party, was proved to be misidentified.

Theodolite cuts from Photo Pts "P" and "E" through daybeacons No. 16 and No. 17 were proved to have been reversed when entered in the field notes.

38. CONTROL FOR FUTURE SURVEYS

Form 524 is being submitted with this report for MEBL 597, 1949.

39. JUNCTIONS

Junction has been made with T-9184 and T-9185 to the north, T-9190 to the south and T-9187 to the west, and all are in agreement. There is no survey to the east.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 through 45.

No comment.
46. **COMPARISON WITH EXISTING MAP**

A quadrangle of the area was not available.

47. **COMPARISON WITH NAUTICAL CHART**

Manuscript T-9188 has been compared with USC&GS Chart No. 1286, scale 1:80,000, published 1942 (13th edition), corrected to 9 January 1950. Comparison was also made with USC&GS Chart No. 523, scale 1:40,000 published June 1945 (1st edition) corrected to 19 December 1949.

(a) No comment (See Items 63 & 65 of the Review Report).

(b) Items to be applied to nautical charts immediately:
   - Laguna Madre Causeway
   - Dredged channel (near top edge of sheet)

(c) Items to be carried forward:
   - None

(d) No comment (For shoreline delineation see Review Report).

Respectfully submitted
16 October 1950

Judson Y. Councill

Approved and forwarded
25 October 1950

Hubert A. Paton
Comdr., C&GS
Officer in Charge
48. GEOGRAPHIC NAMES

Commissioner Precinct IV
Corpus Christi Bay
Corpus Christi Pass (closed)
Crane Island

Demit Island
Gulf of Mexico
Intracoastal Waterway

Laguna Madre
Laguna Madre Causeway (under constr.)

Mustang Island
Navy Crashboat Channel *
Newport Pass (closed)
Nueces County

Packery Channel
Padre Island

Seaplane Operating Area*
Shamrock Cove

Woods Bayou (not shown - see Item 65 of the review report).

Geographic names, listed above, were taken from names standard furnished by the Washington Office, dated 4 November 1949 and labeled "Final Name Sheet No. 2". The two names listed above and marked with an * were not on the aforementioned names standard but were shown on the field photographs.

Names approved
4-9-51
a.f.w.
(a) Photo hydro stations - None

Topographic stations - NEBL 597, 1949

(b) No comment (No details between MH & ML to be checked by the hydrographer).

(c) No comment (Attention is called to no special information of the hydrographer in using this map.)
PHOTOGRAMMETRIC OFFICE REVIEW
T- 9188

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

CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy
6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)
7. Photo-hydro stations
8. Bench marks
9. Plotting of sextant fixes
10. Photogrammetric plot report
11. Detail points

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline
13. Low-water line
14. Rocks, shoals, etc.
15. Bridges
16. Aids to navigation
17. Landmarks
18. Other alongshore physical features
19. Other alongshore cultural features

PHYSICAL FEATURES
20. Water features
21. Natural ground cover
22. Planetary contours
23. Stereoscopic
24. Instrument contours
25. Contours in general
26. Spot elevations
27. Other physical features

CULTURAL FEATURES
27. Roads
28. Buildings
29. Railroads
30. Other cultural features

BOUNDARIES
31. Boundary lines
32. Public land lines

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

Reviewer: [Signature]
Supervisor, Review Section: [Signature]

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: [Signature]
Supervisor: [Signature]

Remarks:

M-2623-12
Field Edit Report, T-9188

51. Methods.--The few roads on Padre and Mustang islands were ridden out but most of the field edit was accomplished by riding the beach and driving about the sand dunes in a Jeep.

Extensive changes are in progress along the northeasterly part of the quadrangle due to the exploration and development of oil fields. Some new roads at approximate latitude 27°42', Longitude 97°09' were located by planable. The shoreline area along the easterly side of Corpus Christi Bay from approximate latitude 27°42' and extending north-east into quadrangle T-9184 was photographed at 1:10,000 scale by the U. S. Navy. These photographs were made available to the field edit party and were field inspected for additional detail. The photographs were taken on 17 September 1951 and additional detail, not shown on the map manuscript should be taken from them. Sextant fixes were used to locate some of the oil wells not covered by photography and some privately maintained aids to navigation in this quadrangle and T-9184 to the north.

All field edit information will be found on the Field Edit Sheet or the Navy photographs.

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

52. Adequacy of compilation.--The compiling is well done and will be complete after application of field edit information.

53. Map accuracy.--No accuracy tests were specified. Contours and planimetry were visually inspected and some points used to take-off from and tie-in to with the planable. The accuracy appears good.

54. Recommendations.--None offered.

55. Examination of proof copy.--Mr. Conrad H. Blucher, County Surveyor of Nueces County for many years and a lifelong resident of the area, has agreed to examine the proof copy. His address is County Courthouse, Corpus Christi, Texas.

No discrepancies were noted in Geographic Names.

Respectfully submitted,
4 October 1951

William H. Shearouse
William H. Shearouse,
Cartographer
DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY  

NONFLOATING AIDS OR LANDMARKS FOR CHARTS  

TO BE CHARTED | STIKE OUT ONE  

Corpus Christi, Texas  
15 June 1945  

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.  
The positions given have been checked after listing by Millard F. Kirk  

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD OF LOCATION AND SURVEY</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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<tbody>
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual.
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

\[
\text{Willard F. Kirk}
\]

<table>
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<th>STATE</th>
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. 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.
I recommend that the following objects which have [been 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

Willard F. Kirk

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<th>STATE</th>
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<th>DATE OF LOCATION</th>
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I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by Millard F. Kirk.

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<td>LATITUDE</td>
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</table>

Hubert A. Paton, Chief of Party.

Ch Lct 8-5-5 (51)

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Baltimore, Maryland 15 July 1949

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

The positions given have been checked after listing by

Millard F. Kirk

<table>
<thead>
<tr>
<th>STATE</th>
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<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
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<th>DATUM</th>
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<th>DATE OF LOCATION</th>
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. 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.
DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY  

NONFLOATING AIDS OR LANDMARKS FOR CHARTS  

Baltimore, Maryland  
15 July 1949

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

The positions given have been checked after listing by Millard F. Kirk.

<table>
<thead>
<tr>
<th>STATE</th>
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<tbody>
<tr>
<td>CHARTING NAME</td>
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<td>LONGITUDE</td>
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<tr>
<td>D. M.</td>
<td>D. M.</td>
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<td>N. M.</td>
<td>E. M.</td>
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U.S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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The positions given have been checked after listing by

William F. Kirke

<table>
<thead>
<tr>
<th>STATE</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY No.</th>
<th>DATE OF LOCATION</th>
<th>HARBOUR CHART</th>
<th>INSIDE CHART</th>
<th>OFFSHORE CHART</th>
<th>CHARTS AFFECTED</th>
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<td>26 97 14 1210</td>
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<td>1949</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>523, 1286</td>
</tr>
</tbody>
</table>

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DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Corpus Christi, Texas  3 October 1951

I recommend that the following objects which have not been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

Joseph W. Vonasek

<table>
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<th>STATE</th>
<th>Charting Name</th>
<th>Description</th>
<th>Signal Name</th>
</tr>
</thead>
<tbody>
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<td>Single pile structure, light atop, privately maintained, no number</td>
<td>27°44'1709&quot;</td>
<td>97°10'318&quot;</td>
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<tr>
<td>Light</td>
<td>N.A. Sextant 1927 T-9166 1951 X X 1286</td>
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<td></td>
</tr>
</tbody>
</table>

| Light | Same | 27°44'1708" | 97°09'1285" |
| Light | Same | 27°44'1328" | 97°09'1376" |

Ch 47 855 (5.1)
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be (deleted from) the charts indicated.

The positions given have been checked after listing by

<table>
<thead>
<tr>
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<th>Texas</th>
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</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>Daybeacon</td>
<td>Shemrock Cove 1</td>
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</table>

(This daybeacon no longer exists. There are three privately maintained lights in the area.)

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<th>POSITION</th>
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</table>

| METHOD OF LOCATION AND SURVEY NO. |
| T-9188 |

| DATE OF LOCATION |
| x x |

| CHARTS AFFECTED |
| 523 |

CH Le 555 (51)
62. Comparison with Registered Topographic Surveys:

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<th>Date</th>
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<td>T-6708</td>
<td>1:20,000</td>
<td>1939</td>
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Man and nature combine to effect extensive and frequent changes of shoreline, channels, passes, causeways, shifting sands, etc., on the western sides of PADRE and MUSTANG ISLANDS and at the meeting of the waters of CORPUS CHRISTI BAY and the LAGUNA MADRE.

Except for the passes connecting the bay waters with the Gulf, which at various times are closed, dredged, or broken through at several low places between the two islands, the Gulf shoreline itself is comparatively stable as all surveys to date indicate.

For a discussion of the special shoreline interpretation and delineation on the western side of PADRE and MUSTANG ISLANDS see the Review Report contained in the Descriptive Report for T-9180.

The present survey supersedes those listed above as a basic topographic survey for the construction of nautical charts in this area.

63. Comparison with Maps of Other Agencies:

CORPUS CHRISTI, Tex., USE, 1:125,000, 1918 (?)  
CRANE ISLAND, Tex., USE, 1:62,500, 1929

The latter was constructed from a base map of the USC&GS.

The passes to the Gulf, south of the CRANE ISLANDS, shown on the above maps are now closed as the present survey indicates.

For more detailed differences, also applicable here, see Item 65 below.

64. Comparison with Contemporary Hydrographic Surveys:

H-6395 1:20,000 1938

Horizontal control and the Gulf shoreline are the only topographic features carried on the above hydrographic survey.
The Gulf shoreline shows only minor changes since 1938—the date of H-6395.

65. **Comparison with Nautical Charts:**

<table>
<thead>
<tr>
<th>Chart</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>523</td>
<td>1:40,000</td>
<td>May, 1951</td>
</tr>
<tr>
<td>1286</td>
<td>1:80,000</td>
<td>April, 1952</td>
</tr>
</tbody>
</table>

The following are differences to be noted between the above charts and the present survey:

1. Shoreline interpretation and delineation—see Item 62 above. Extensive changes on the bay side should be noted.

2. WOODS BAYOU—although approved, this geographic name has not been carried forward on this survey due to the obliteration of the defineable limits of this feature.

3. A new channel has been dug near the entrance to SHAMROCK COVE in an ESE direction into MUSTANG ISLAND about a half mile short of the Gulf shoreline.

4. New oil wells in the area south of SHAMROCK COVE, visible on photographs, were cut in by the radial plot method. Those not visible were determined by sextant fixes supplied by field edit.

5. Obstructions—in two low water areas, approximately a half mile east and southeast of the Corpus Christi—Port Isabel Light 15, are 2 boilers and a house on piling not charted at present.

66. **Classification:**

Although this manuscript has obtained classification clearance for publication—see letter dated 29 January 1951, G2-SMF 061, addressed to the Director by Maj. D. L. Hickok—some of the photographs in this area still bear the classification stamp "SECRET."

67. **Adequacy of Manuscript:**

This topographic survey complies with project instructions and with National Standards of Map Accuracy.

Reviewed by:

L. Martin Gazik
Approved:

[Signature]
L.C. Lauer 6 Jan 1955
Chief, Review Section
Division of Photogrammetry

[Signature]
Chief, Nautical Chart Branch
Division of Charts

[Signature]
Chief, Div. of Photogrammetry

[Signature]
Chief, Div. of Coastal Surveys
HISTORY OF HYDROGRAPHIC INFORMATION
Topographic Map T-9188
Corpus Christi Bay, Texas

Hydrography was applied to the map manuscript in accordance with the general specifications of 18 May 1949.

Depth curves and soundings are in feet and originate with the following:

C. & G.S. hydrographic surveys:
H-958 (1868), 1:20,000; H-5694 (1934), 1:20,000;
H-6395 (1938) 1:20,000; H-6402 (1938), 1:40,000

U.S.E. survey: B.P. 40212 (1945), 1:10,000

C. & G.S. Nautical Charts:
893 1:40,000 corrected to September 1952
1266 1:80,000 latest print date 4-14-52

The depth curves are shown at 6, 12, 18 and 30 feet. The datum is mean low water.

The hydrographic data was compiled by Everett H. Ramey 10 September 1952 and checked by O. Svendsen 1 October 1952. It represents the latest information available.

Everett H. Ramey
Division of Photogrammetry
9 September 1952
# Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>11/4/50</td>
<td>1286</td>
<td>Straw</td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td>11/17/51</td>
<td>893</td>
<td>St. M. S. B.</td>
<td>Before Verification and Review</td>
</tr>
<tr>
<td>7/21/52</td>
<td>893</td>
<td>G. Walker</td>
<td>After Verification and Review</td>
</tr>
</tbody>
</table>

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under “Comparison with Charts” in the Review.