

6658ab
6659ab
6660ab

Graphic

6661ab

Graphic Control

6662ab

Graphic Control

Graphic Control

6663ab

Graphic Control

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
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6658a/1212

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

DESCRIPTIVE REPORT

6658, 6659, 6660
6661, 6662, 6663

Topographic }
Hydrographic } Sheet No.

State Texas
Texas Coast
LOCALITY

Matagorda Peninsula, Matagorda
Island, St. Joseph Island and
Mustang Island.

1938
CHIEF OF PARTY
G. C. Mattison

T-6658^{a+b}, 6659^{a+b}, 6660^{a+b} applied to chart 1284 4/23/40
g.H.S.

T-6662^a, 6663^{a+b} applied to chart 1286 5/2/40 g.H.S.

T-6662^{a+b}, 6662^{a+b} applied to chart 1285 May 1940 J.B.B.

T-6663^{a+b} applied to Chart 523 Mar. 1941 K.R.D.

T-6660^a applied to Chart 890 Nov. 1950 M. Hunsberger

T-6660^a applied to Chart 889 Nov. 1950 H. Keeler

T-6658^a applied to Chart 888 Aug. 1951 H. Keeler

APR 18 1939

REG. NO.

TOPOGRAPHIC TITLE SHEET **Sec. No.**

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

Field No.

REGISTER NO. 6658 a & b

T6658 a
T6658 b

State.....TEXAS.....

General locality.....~~Matagorda Peninsula~~ **Texas Coast**.....

Locality.....* Outer Coast.....

Scale.....1:20,000..... Date of survey.....May, 1938....., 19.....

Vessel.....Launch FARIS.....

Chief of party.....G. C. Mattison.....

Surveyed by.....J. N. Jones.....

Inked by.....J. N. Jones & J. W. Stirni.....

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated.....Feb. 17, 1937 - Feb. 23, 1938....., 19.....

Remarks: Principally graphic control sheet.

879

- * 6658 ab - Matagorda Peninsula
- * 6659 ab - " "
- * 6660 a - " " to Matagorda
- * 6660 b - " Island
- * 6661 ab - " "
- * 6662 ab - St. Josephs Island
- * 6663 ab - Mustang Island

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

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 No.

REGISTER NO. 6659 a & b

T6659 a
T6659 b

State.....TEXAS.....

General locality.....Matagorda Peninsula.....

Locality.....Outer Coast.....

Scale.....1:20,000..... Date of survey.....May, 1938....., 19.....

Vessel.....Launch FARIS.....

Chief of party.....G. C. Mattison.....

Surveyed by.....J. N. Jones.....

Inked by.....J. E. Jones & J.W. Stirni.....

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated.....Feb. 17, 1937 - Feb. 23, 1938....., 19.....

Remarks:.....Principally graphic control sheet.....

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

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 No.

REGISTER NO. 6660 a & b

T6660a
T6660b

State..... Texas

General locality..... Matagorda Peninsula and Northern part of

Locality..... Matagorda Island.

Scale..... 1:20,000 Date of survey..... May - June 19³⁸

Vessel..... Launch FARIS

Chief of party..... G. C. Mattison

Surveyed by..... J. N. Jones

Inked by..... J. N. Jones

Heights in feet above..... to ground to tops of trees

Contour, Approximate contour, Form line interval..... feet

Instructions dated..... Feb. 17, 1937 - Feb. 23, 1938 19.....

Remarks:..... Principally graphic control sheet.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

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 No.

REGISTER NO. 6661 a & b

T6661a
T6661b

State.....TEXAS.....

General locality.....MATAGORDA ISLAND.....

Locality.....Southern party.....

Scale.....1:20,000..... Date of survey.....July....., 19.....38

Vessel.....Launch FARIS.....

Chief of party.....G. C. Mattison.....

Surveyed by.....J. N. Jones.....

Inked by.....J. N. Jones.....

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated.....Feb. 17, 1937 - Feb. 23, 1938....., 19.....

Remarks: Principally graphic control sheet.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

APR 18 1939

REG. NO.

TOPOGRAPHIC TITLE SHEET

Acc. No.

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

Field No.

REGISTER NO. 6662 a & b

T6662a
T6662b

State.....TEXAS.....

General locality St. Joseph Island.....

Locality Cedar Bayou to Aransas Pass.....

Scale 1:20,000 Date of survey July - August, 19 38

Vessel Launch PARIS.....

Chief of party G. C. Mattison.....

Surveyed by J. N. Jones.....

Inked by J. N. Jones.....

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated Feb. 17, 1937 - Feb. 23, 1938, 19.....

Remarks: Principally graphic control sheet.....

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

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 No.

REGISTER NO. 6663 a & b

T6663 a
T6663 b

State..... TEXAS

General locality..... MUSTANG ISLAND

Locality..... Aransas Pass to Corpus Christi, Pass

Scale..... 1:20,000 Date of survey..... Aug. & Sept. , 1938

Vessel..... Launch FARIS

Chief of party..... G. C. Mattison

Surveyed by..... J. N. Jones

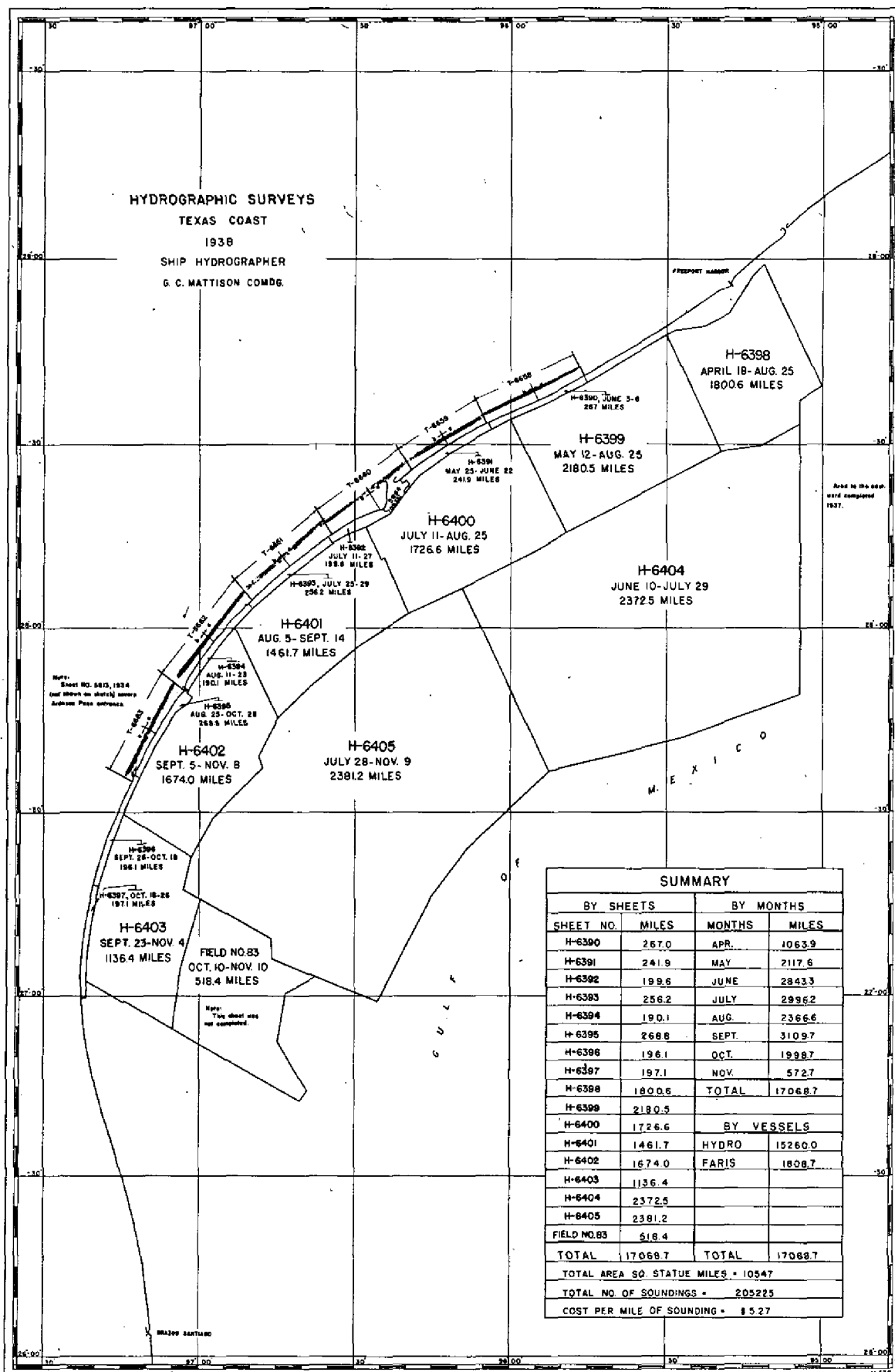
Inked by..... J. N. Jones

Heights in feet above..... - to ground to tops of trees

Contour, - Approximate contour, Form line interval..... feet

Instructions dated..... Feb. 17, 1937 - Feb. 23, 1938 , 19.....

Remarks:..... Principally graphic control sheet.



DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEETS NOS. 6658, 6659, 6660, 6661, 6662 & 6663, 1938.

INSTRUCTIONS:

These surveys are in accordance with Director's instructions for Project Ht-214 dated February 17, 1937.

LIMITS AND GENERAL STATEMENT:

These sheets were primarily constructed for graphic location of hydrographic signals, however it was convenient to show the Gulf high water line and revise the shore line immediately adjacent, in areas where a change was noted.

These surveys extend from a junction with Sheet D 1937, at Triangulation Station East Point 1883, 1934 on Matagorda Peninsula south and westward to the limit of the recent photo topographic sheets and a satisfactory junction and overlap with T4905 in the vicinity of Corpus Christi Pass, Padre Island. The sheets are considerably discolored, and were a little difficult to ink neatly, largely because they were soaked by salt water when the Launch FARIS was caught in a blow at the close of the season.

LANDMARKS:

No new landmarks were located. The windmills on Matagorda Island and St. Joseph Island are moved frequently and while listed as recoverable, should be checked before using.

CONTROL:

This survey was based on the scheme of second order triangulation executed in 1933-1934. Sufficient stations were easily recovered. Only stations which were used are shown on sheets. Due to lack of transportation, on the bay side, a number of stations were not searched for.

SURVEY METHODS:

Standard topographic survey methods were used. Signals were located largely by traverse, occasionally by cuts. Due to the poor visibility on account of heat distortion a 200 meter wire was used for traverse in place of stadia rods. No adjustment of closures was necessary. Signals HENRY and IRON were computed from theodolite cuts to check traverses on Sheet 6662.

COMPARISONS WITH PREVIOUS SURVEYS:

Detail as shown on photo topographic sheets is excellent and no changes in vegetation, sand dunes, or buildings was noted. The changes in shoreline were in low changeable areas where a few inches in elevation makes a big difference..

In general, the Gulf H.W. line had receded slightly.

At the Colorado River, a channel had been dredged through to enable the the river to discharge directly into the Gulf.

At Corpus Christi Pass a dredge was working on a channel which would eventually lead to the Gulf. Little or no progress was being made at the time of this survey and the proposed channel line was not located.

Considerable change was noted in the shoreline south and west of Corpus Christi Pass. This shore line was completely rerun on Sheet 6663b, with the exception of Crane Islands.

South of Sheet 6663, the H.W. and L. W. line of the Gulf shore were run by the hydrographic party while putting in hydrographic control. Shoreline thus run, is plotted on Hydrographic Sheets H6396 and H6397 of this same season.

Some change was also noted in the vicinity of Greens Bayou and Cedar Bayou.

NEW NAMES: *814*

Maverick Bayou and Big Bayou on Sheet 665^{bb} *8 2nd P.* are established local names. The bayous so called are relatively unimportant. These names are shown in pencil.

LIST OF RECOVERABLE PLANE TABLE POSITIONS:

SHEET 6660 b

| Name | Description | Latitude | Longitude |
|------|-------------|-----------------|-----------------|
| MO | Windmill | 28° 19' 1568 m. | 96° 26' 1525 m. |
| SAY | Windmill | 28 19 947 | 96 27 956 |
| PAN | Windmill | 28 18 1404 | 96 28 25 |
| CO | Windmill | 28 18 828 | 96 29 691 |
| SAN | Windmill | 28 18 364 | 96 29 1612 |
| TEA | Windmill | 28 17 1392 | 96 30 1242 |
| HO | Windmill | 28 17 510 | 96 31 1057 |
| QUI | Windmill | 28 16 1543 | 96 32 668 |
| JOE | Windmill | 28 16 485 | 96 33 619 |
| DON | Windmill | 28 15 758 | 96 34 1338 |

SHEET 6661 a

| | | | |
|-------|--------------------|------------|------------|
| PETE | Windmill | 28 14 1607 | 96 35 1289 |
| DAR | Wreck of oil barge | 28 14 300 | 96 36 659 |
| EXTRA | Windmill | 28 14 916 | 96 36 1480 |
| | Windmill | 28 13 830 | 96 39 398 |
| | Windmill | 28 12 1401 | 96 40 617 |
| OSCAR | Windmill | 28 11 1619 | 96 41 837 |
| BILL | Windmill | 28 10 1015 | 96 42 956 |

SHEET 6661 b

| Name | Description | Latitude | Longitude |
|------|-------------------|-----------------|-----------------|
| | Windmill | 28° 09' 1374 m. | 96° 43' 1361 m. |
| POP | Windmill | 28 09 1035 | 96 44 506 |
| | Windmill | 28 09 496 | 96 45 221 |
| NEAR | Windmill | 28 08 1433 | 96 45 541 |
| ISM | Windmill | 28 08 635 | 96 46 43 |
| OIL | Lone oil derrick | 28 09 184 | 96 47 142 |
| | Windmill | 28 07 1327 | 96 46 1196 |
| GAB | Center gable barn | 28 07 1378 | 96 47 776 |
| TANK | Elevated tank | 28 07 571 | 96 48 2 |
| | Windmill | 28 06 1183 | 96 48 236 |
| BACK | Windmill | 28 05 476 | 96 49 1150 |

SHEET 6662 a

| | | | |
|------|----------|------------|------------|
| | Windmill | 28 04 1647 | 96 51 21 |
| | Windmill | 28 03 822 | 96 52 129 |
| ACE | Windmill | 28 02 1277 | 96 52 1516 |
| BUG | Windmill | 28 02 1672 | 96 52 1005 |
| HAIL | Windmill | 28 02 260 | 96 53 768 |
| SNOW | Windmill | 28 01 254 | 96 54 489 |
| | Windmill | 28 00 1019 | 96 55 94 |
| STUD | Windmill | 27 59 885 | 96 56 182 |
| BIRD | Windmill | 27 59 719 | 96 56 1107 |

SHEET 6662 b

| Name | Description | Latitude | Longitude |
|-------|------------------|-----------------|----------------|
| Wind | Windmill | 27° 57' 1095 m. | 96° 58' 879 m. |
| WHY | Windmill | 27 57 787 | 96 57 1556 |
| BARN | SE gable barn | 27 56 1805 | 96 58 1505 |
| SMALL | Small black tank | 27 56 1338 | 96 58 1053 |
| MILL | Small black tank | 27 56 923 | 96 59 594 |
| LOSS | Small black tank | 27 55 543 | 95 21 815 |

SHEET 6663 a

| | | | |
|------|---------------|-----------|------------|
| MAL | Elevated tank | 27 49 817 | 97 03 1073 |
| NUTZ | Oil derrick | 27 44 400 | 97 07 1249 |

Sheet 6663 b

| | | | |
|------|----------|------------|-----------|
| WASH | Windmill | 27 38 1361 | 97 11 601 |
|------|----------|------------|-----------|

Respectfully submitted,

James N. Jones

James N. Jones, Jr. H. & G. Eng.,
Coast and Geodetic Survey.

Approved and forwarded:

G. C. Mattison
G. C. Mattison,
Chief of Party,
Commanding HYDROGRAPHER.

LIST OF STATISTICS.

| SHEET NO. | STATUTE MILES OF SHORE LINE | SQUARE STATUE MILES OF AREA |
|------------|--------------------------------|--------------------------------|
| 6658 a & b | 25.0 | 10.0 |
| 6659 a & b | 17.5 | 8.0 |
| 6660 a & b | 14.0 | 5.0 |
| 6661 a & b | 19.0 | 6.0 |
| 6662 a & b | 18.5 | 6.0 |
| 6663 a & b | 33.5 | 14.0 |

Section of Field Records

Graphic Control
REVIEW OF ~~TOPOGRAPHIC~~ SURVEYS NOS. T-6658a,b; T-6659a,b; T-6660a,b;
T-6661a,b; T-6662a,b; T-6663a,b

Gulf Coast, Texas; Matagorda Peninsula to Mustang Island
Surveyed May - September, 1938; Scale 1:20,000
Instructions dated February 17, 1937 and February 23, 1938
(HYDROGRAPHER)

Plane Table Survey (~~Principally Graphic Control~~) Aluminum Mounted

Chief of party - G. C. Mattison
Surveyed by - J. N. Jones
Inked by - J. N. Jones and J. W. Stirni

1. Condition of Records

The records are legible, sufficiently neat, and conform to the requirements of the Topographic Manual.

2. Compliance with Instructions for the Project

The scale, character and extent of the surveys satisfy the instructions for the project except as follows:

- (a) Besides the location of hydrographic signals as authorized in the instructions, it was found that in certain cases the mean high water line had changed enough to require its relocation on the outside coast. In a few cases the M.H.W. line of ~~cuts~~ *wrecks in the coast* and short sections of M.H.W. line on the bay side were also located, as well as an occasional object such as a house, wreck or short section of road, in order to locate the main changes since the previous surveys.

Referring to the February 17, 1937, instructions, page 6, paragraph 29 and to the supplemental instruction of February 23, 1938, page 3, paragraph 9, these surveys show no declinatoire observations and no mention of observations or standardizations is made in the descriptive report for these surveys.

3. Junctions with Contemporary Surveys

All junctions are satisfactory except as follows:

- (a) In a few cases there is a short overlap in the shoreline between two surveys which does not agree by a small amount throughout the entire extent of the overlap, but does agree at one point. This, however, is of no practical importance; in these

T-6658a,b; T-6659a,b; T-6660a,b;
T-6661a,b; T-6662a,b; T-6663a,b

cases a junction can be effected without difficulty and the shoreline which is in error can be detected.

- (b) There is not a perfect junction between the south limit of T-6663b and T-4905 (1934) because of changes which have taken place. However, the difference is not so large or so important (the shoreline and roads are constantly subject to change), but that a junction adequate for charting can be effected. Furthermore, it is probable that the new surveys will continue southward and that these will be made to join perfectly with the present survey T-6663b.

4. Comparison with Prior Surveys

- (a) T-5359; T-5353; T-5352; T-5045; T-5364;
T-5363; T-5397; T-5369; T-5368; all 1:20,000 scale (1933)

General

The above recent phototopographic surveys which cover the area included in the present surveys, were closely compared at the time of their review to all previous surveys within the area covered. These phototopographic surveys supersede all previous surveys for the area covered. Therefore, no surveys previous to the ones listed above need be considered in this comparison.

Shoreline Detail

The shoreline in general is not much changed, except for changes in the small inlets which break the barrier between the gulf and the inside bays at occasional intervals. Changes in the shoreline of these small inlets are continually taking place and large changes occur after every storm so that there is nothing remarkable about any changes which have taken place.

Other Topographic Detail

The new survey shows a few topographic features added or rebuilt since the previous survey, such as an occasional barn or ranch house, and the extension of the pier on the south side of the south jetty at Aransas Pass. ^(T-6660b and T-5045) The only contradiction between the surveys is in the location of the inshore end of the line of piles on the gulf coast at Long. 96°25.5'. A difference of about 20 meters exists

T-6658a,b; T-6659a,b; T-6660a,b;
T-6661a,b; T-6662a,b; T-6663a,b

at the inner end whereas the outer end agrees exactly.)

~~T-6660a vs T-6661b~~

It can not be told which is correct, but the difference is not important on charting scales.

Signals and Prominent Objects

There were a few inconsequential errors in spelling or dating various triangulation stations. These have been noted for correction directly on the sheet concerned, or on a supplemental if a previous survey was in error. Any differences in plotting were too small to note.

(b) T-4905 (1933) 1:10,000

This is a plane table survey of Corpus Christi Pass which is on twice the scale of the present survey. The main changes are the M.H.W. line of the bay shore and the passes, and the road on Padre Island.

5. Comparison with Charts

1283 (printing 4/11/38)
1284 (printing 4/14/39)
1285 (printing 2/17/38)
1286 (printing 3/ 3/38)

Some of the charts have not been completely revised for the 1933 surveys as yet. When this is done the new information on the present surveys can be applied at the same time. For those charts which have already been revised for the 1933 surveys, only a few minor changes need be made as itemized under paragraph 4 "Comparison with Prior Surveys", of this report.

6. Magnetic Declination

No information regarding magnetic declination is contained in the report or on the sheets for these surveys.

7. Landmarks and Aids to Navigation

The report states that no new landmarks are recommended. No new aids to navigation have been located by this survey.

T-6658a,b; T-6659a,b; T-6660a,b;
T-6661a,b; T-6662a,b; T-6663a,b

8. Comparison with Contemporary Hydrographic Surveys

The comparison between these surveys and contemporary hydrographic surveys has not been made. The review of the hydrographic surveys has not been made at this date and the comparison between the surveys should be made when that is done.

9. Field Drafting

The inking and lettering is sufficiently good.

10. Additional Field Work

No additional field work is recommended.

11. Superseding Old Surveys

For the details which they show, the present surveys supersede all prior topographic surveys for charting purposes.

12. Corrections Applied to Existing Phototopographic Maps

No changes will be made to the existing phototopographic maps from the information contained in these new surveys except where the new surveys show that an error was made in the previous surveys. The new shoreline and other information will not be applied to the supplementals for the phototopographic surveys but will be noted on the supplementals as a matter of record.

13. Reviewed by T. M. Price, Jr., July 5, 1939.

Inspected by B. G. Jones, July 14, 1939.

MEMORANDUM

IMMEDIATE ATTENTION

| | | | | | |
|---|---|---|---------------------|---|--|
| SURVEY DESCRIPTIVE REPORT PHOTOSTAT OF | } | NO. 11 No. T-6658ab, T-6659ab T-6660ab, T-6661ab T-6662ab, T-6663ab | GRAPHIC CONTROLS | { | received April 10, 1939 registered April 24, 1939 verified reviewed approved |
|---|---|---|---------------------|---|--|

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.

| ROUTE | | Initial | Attention called to |
|-------|--|---------|---------------------|
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RETURN TO

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| 82 | T. B. Reed |
|----|------------|

✓ JBR

GEOGRAPHIC NAMES

Survey No.

T-6658a & b

| Name on Survey | A On Chart No. | B On previous survey No. | C On U. S. quadrangle Maps | D From local information | E On local Maps | F P. O. Guide or Map | G Rand McNally Atlas | H U. S. Light List | K |
|----------------------------|----------------------|--------------------------------|----------------------------------|---|--------------------|-------------------------|-------------------------|-----------------------|--------|
| Title: <u>Texas</u> | | | | (for title) | | | | | USGB 1 |
| <u>Matagorda Peninsula</u> | | | | " " | | | | | 2 |
| <u>Colorado River</u> | | | | " " | | | | | USGB 3 |
| | | | | | | | | | 4 |
| Features: | | | | | | | | | 5 |
| <u>Matagorda Peninsula</u> | | | | | | | | | 6 |
| <u>Colorado River</u> | | | | | | | | | USGB 7 |
| <u>Big Bayou</u> | | | | | | | | | 8 |
| <u>Maverick Bayou</u> | | | | | | | | | 9 |
| | | | | | | | | | 10 |
| | | | | | | | | | 11 |
| | | | | Names underlined in red are approved. 4/27/48 L. Heck | | | | | 12 |
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