

4924

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: LOUISIANA

DESCRIPTIVE REPORT

Topographic } Sheet No. G
Hydrographic }

LOCALITY

Gulf Coast of Louisiana

~~Tiger Shoal & Marsh Island~~

Vermilion Bay

Vicinity of Southwest Pass

19 34.

CHIEF OF PARTY

W. E. Parker.

U. S. GOVERNMENT PRINTING OFFICE: 1923

4924

Applied to Chart 1051 Aug 1937 Chas. R. Bush Jr.
" " " 1277 Sept 1937. J. M. S.

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. G

REGISTER NO. **4924**

State LOUISIANA?

General locality GULF COAST Vermilion Bay

Locality Vicinity of Southwest Pass
TIGER SHOAL AND MARSH ISLAND

Scale 1:20,000 Date of survey May, 1934.

Vessel "HYDROGRAPHER"

Chief of party W. E. PARKER

Surveyed by GEORGE R. SHELTON

Inked by D. H. BASSETT AND GEORGE R. SHELTON

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

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

Instructions dated DECEMBER 17th, 1932.

Remarks: -----

DESCRIPTIVE REPORT
TO ACCOMPANY
TOPOGRAPHIC SHEET G
TIGER SHOAL AND MARSH ISLAND

AUTHORITY

The Survey was made under the Director's Instructions dated December 17th, 1932.

LOCALITY AND LIMITS

The topography on this sheet extends from Triangulation Station ^{Le}TIGRE on the Western Limit to 1-1/2 miles east of Triangulation Station ^SLaCROIX on Marsh Island. It joins Topographic Sheet F on the West and Topographic Sheet H on the East. No attempt was made to make a survey of Southwest Pass nor that part of Vermillion Bay which comes within the limits of this sheet as it was intended to make a survey of this area on another sheet.

CONTROL AND SURVEY METHODS

The control was by Second Order Triangulation executed in 1933.

The usual Coast Survey Methods were used in this survey, traverse and resections. The traverses along the beach were measured with a one hundred meter stranded wire. There was no traverse errors to adjust. The shoreline and intermediate signals were located by rod readings from plane table setups along the traverse lines.

LANDMARKS

The area surveyed has only two landmarks of any importance. A large clump of trees and a small clump of trees west of Southwest

Pass. Their positions are listed on landmarks for charts.

DESCRIPTION OF SHORE LINE

Beginning with the Western Limit of this Sheet and Extending within a half-mile of the Entrance to Southwest Pass, the shore line is fine shell and sand. The high ground formed by sand and shell is from 15 m. to 30 m. in width back of which is Marsh land. A fringe of small trees extends from beyond the Western Limit of the Sheet for a distance of about 2-1/2 miles. Beginning at Lighthouse Point and extending to the Eastern Limit of the Sheet the beach is composed of a narrow strip of sand and shell except for about one-half mile on each side of Triangulation Station LaCROIX. The marsh at this point comes down to the water. There is a fringe of small trees along this shore line also for the most part.

COMPARISON WITH PREVIOUS SURVEYS

The shore line located by this Survey was transferred to a Section Topographic Sheet 1686 and Topographic Sheet 1684 for comparison. At Station LaTIGRE the erosion was found to be about 30 m. and gradually increased to 200 m. at the eastern limit of Sheet 1686. The amount of erosion continued at about 200 m. to the West Shore of Southwest Pass. Beginning at Lighthouse Point and extending for about two miles the amount of erosion was about 200 m. From this point the amount decreased to about 50 m. at the Eastern Limit of the Sheet.

STATISTICS

Statute miles of shoreline - 16.8

Area in square statute miles - 8.0


NEW NAMES

The name DIAMOND REEF for an oyster reef off Triangulation
Station LaCROIX is in general use in this locality.

Respectfully submitted

George R. Shelton,
Jr. H. & G. Engineer,
Coast and Geodetic Survey,
Topographer.

APPROVED:


R. F. Luce, Commander,
Coast and Geodetic Survey,
Chief of Party.

Survey No. 4924

Date. Sept. 17, 1935 GEOGRAPHIC NAMES

Chart No. 1277

Diagram No. 1277

Approved by the Division of Geographic Names, Department of Interior. *

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

[illegible]

REVIEW OF TOPOGRAPHIC SURVEY No. 4924

Title (Par. 56) *Vicinity of SOUTHWEST PASS, L.A.*Chief of Party *W.E. Parker* Surveyed by *G.R. Shelton* Inked by *G.R.S. and D.H. Bassett.*Ship *Hydrographer* Instructions dated *Dec. 17, 1932* Surveyed in 1934

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. ~~The amount of vertical control that the Manual specifies for contours-formlines was accomplished. (Par. 18, 19, 20, 21, 22, 23.)~~
5. ~~The delineation of contours-formlines is satisfactory. (Par. 49, 50.)~~
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *None submitted*
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, ^(OK) ~~(reefs, coral reefs and rocks,~~ and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) *No low water line is shown, although this feature is shown on contemporary surveys to the eastward and westward. The previous surveys also show low water line in several sections of this coast*
9. ~~Rocks~~ ^{Reefs} and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
10. The span, draw and clearance of bridges are shown. (Par. 16c.) *None*
11. ~~Locations and elevations of summits are given. (Par. 19, 51.)~~
12. ~~The tree line was shown on mountains. (Par. 16g.)~~

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.), *except that a list of Plane-Table stations was not included.*
14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control. *Not discussed in descriptive report.*
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of IMs and DPs, 68.) *No cards submitted.*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) ✓
18. The geographic datum of the sheet is *N.A. (1927) adjusted* and the reference station is correctly noted. (Par. 34.)
19. Junctions with contemporary surveys are adequate. ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report ~~after review by~~ *There is no record that the Chief of Party inspected the sheet.*
24. Remarks: *Air photo surveys have been made by the Geological Survey west of Southwest Pass and are based on good control. Air photo surveys have been made east of Southwest Pass by the Corps of Engineers. The control used was not good. All of these surveys may be used to supplement T. 4924 where there is agreement in overlapping details.*
Reviewed in office by *E.P. Echo, March 10, 1936*

Examined and approved:

C. K. Green.
Chief, Section of Field Records

L. O. Pollock.
Chief, Division of Charts

Irvin L. Peacock
Chief, Section of Field Work

Glenn
Chief, Division of Hyd. and Top.