

5859

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AUG 30 1935

Acc. No.

Form 504
Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 12
Hydrographic }

State Louisiana

LOCALITY

West of Atchafalaya Bay

Part of East and West Cote Blanche

Bays.

1935

CHIEF OF PARTY

Thos. B. Reed

5859

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

AUG 30 1935

REG. NO.

HYDROGRAPHIC TITLE SHEET

Acc. No. _____

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

Field No. 12 / **5859**

REGISTER NO.

State Louisiana ?

General locality West of Atchafalaya Bay

Locality Part of East and West Cote Blanche Bays.

Scale 1:20,000 Date of survey July 12 to July 28, 1935

Vessel Field Party No. 4.

Chief of Party Thos. B. Reed

Surveyed by J. C. Tribble, J. F. McIlwain

Protracted by H. L. Proffitt, J. C. Tribble

Soundings penciled by J. C. Tribble

Soundings in ~~fathoms~~ feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by _____

Inked by C. P. Bush Jr.

Verified by C. P. Bush Jr.

Instructions dated June 26, 1924; Jan. 19, 1935; June 8, 1935
Letter dated May 22, 1935, No. 22-MEK-1990 (4)

Remarks: This sheet was not completed due to the party being disbanded on July 31, 1935.

DESCRIPTIVE REPORT
to accompany

Hydrographic Sheet No. 12, Part of East and West Cote Blanche Bays

Louisiana

Field Party No. 4.

Thos. B. Reed, Chief of Party.

Project H. T. 156.

DATE OF INSTRUCTIONS: June 26, September 15, 1934; January 19, 1935. ✓

DATE OF SURVEY: July 12 to 28, 1935.

SURVEY METHODS:

This survey was made by the usual launch hydrographic methods, using sextant positions, sounding pole and standard lead line. Hydrography in the vicinity of "The Jaws" is shown on an insert in the upper right hand corner of the sheet.

DISCREPANCIES:

Discrepancies found in positions were noted in the sounding records by the smooth plotter. ✓

GENERAL DESCRIPTION:

This sheet includes the northern part of East Cote Blanche Bay and the southern and eastern parts of West Cote Blanche Bay. This sheet is uncompleted, due to field work of this party being discontinued on July 31, 1935. Some additional development would be desirable to the southward of Marone Point, but could not be done before field work was discontinued because of weather conditions and other reasons.

COMPARISON WITH PREVIOUS SURVEYS:

Copies of the old surveys in this region are not available for making a comparison. Some change in the area is evident from comparison with Chart No. 199. ✓

A pile shown on Chart No. 199 in the vicinity of latitude $29^{\circ} - 36'$, longitude $91^{\circ} - 39'$ could not be found. ✓

The two foot sounding charted about 1-1/4 miles south of Marone point was not found. ✓ ✓

JUNCTION WITH CONTEMPORARY SURVEYS:

This sheet joins on the south with Sheet No. 5. ✓

GEOGRAPHIC NAMES:

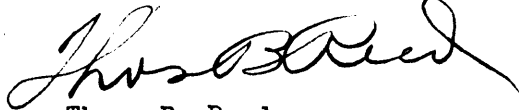
This topic is covered in the descriptive report of topographic Sheet "0". 76347 ✓

TIDE REDUCERS:

Rather than delay the completion of this sheet a field computation was made for the MLW datum on the Cote Blanche staff. This was made by simultaneous comparison with Eugene Island. MLW on Cote Blanche staff was computed as 2.6 feet and this value was used for reduction of soundings in West Cote Blanche Bay.

Tidal reductions are shown on the attached sheets.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read 'Thos. B. Reed', written in dark ink.

Thos. B. Reed,
Lieut., C. & G. Survey,
Chief of Field Party No. 4.

STATISTICS FOR SHEET NO. 12

YEAR 1935	DAY	VOL.	STATUTE MI.	NUMBER	NUMBER	
DATE-----	LETTER	NO. ----	SDG. LINES --	SOUNDINGS ---	POSITIONS	
JULY	12	a	1	34.3	804	95
	13	b	1 & 2	54.9	1331	157
	14	c	2	48.2	1137	135
	15	d	2 & 3	44.2	1016	145
	16	e	3	54.8	1329	160
	17	f	3 & 4	47.0	1165	135
	23	g	4	37.7	879	102
	24	h	4 & 5	45.1	1077	124
	25	j	5	25.0	605	78
	26	k	5 & 6	39.4	917	115
	27	l	6	46.1	1090	128
	28	m	6	10.4	229	32
	15	a	7	40.9	953	114
	16	b	7 & 8	64.5	1496	178
	17	c	8	36.7	833	100
	23	d	9	24.3	566	70
	24	e	9	46.6	1081	142
	25	f	9 & 10	27.8	645	83
	26	g	10	26.4	600	72
	27	h	10	24.3	702	96
	28	j	11	31.3	789	110
TOTAL -----			809.9	19,244	2,371	

NO. SQ. MILES OF SOUNDING ----- 110.4

July 28

HYDROGRAPHIC SURVEY NO. 5859

Smooth Sheet yes

Boat Sheets 2

Sounding Records 11 Vols. _____

Descriptive Report yes

Title Sheet yes

List of Signals Vol 1

Landmarks for Charts (Form 567) yes ✓

Statistics yes

Approved by Chief of Party no

Recoverable Station Cards (Form 524) none

Special Chart for Lighthouse Service no
(Circular Nov. 30, 1933)

Remarks _____

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. 5859.

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	2,371
Number of positions checked	..25..
Number of positions revised	...3..
Number of soundings recorded	1,924
Number of soundings revised	..5.50
Number of signals erroneously plotted or transferred

Date:

Verification by *Franking Chas R Bush Jr*
Review by *S. Piegari*

Time: 4 Days 4 1/2 hrs

Time: 30 3/4 hrs.

Date. Sept. 4, 1935

GEOGRAPHIC NAMES

Survey No. 5859

Chart No. 199,11161277

Diagram No. " "

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

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

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>West Cote Blanche Bay</u> ✓	same			
	<u>East Cote Blanche Bay</u> ✓	"			
	<u>The Jaws</u> ✓		same		
		Marone Pt (chart 199)			
		Marsh I ✓	"	"	
		Names approved 9/7/35 K.T. Adams			

TIDE NOTE FOR HYDROGRAPHIC SHEET

December 4, 1935.

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. E. P. Ellis

Tide Reducers are approved in
11 volumes of sounding records for

HYDROGRAPHIC SHEET 5859

Locality Cote Blanche Bay, Coast of Louisiana.

Chief of Party: Thos. B. Reed
Plane of reference is mean low water reading
2.6 ft. on tide staff at Point Chevreuil
2.3 ft. below B.M. 1
2.7 ft. on Tide Staff at Cote Blanche
46.1 ft. below B.M. 1

Height of mean high water above plane of reference is 1.1 feet at Point Chevreuil; 1.0 feet at Cote Blanche.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

Verifiers Report on H 5859

Jan 28-1936

Very little comment is to be made on this sheet.

About half or a little more of the soundings were inked, all being checked however. The curves were completely drawn, being changed greatly from those pencilled on d (red) day. This was due to the fact that an erroneous tide reducer ran nearly through the entire day. Those soundings not inked on that day were erased.

The field plotting was complete except for some of the bottom characteristics being omitted.

Junctions ^{with H 5852} were good.

Topo signals and shoreline taken from T 6325, 6347 and 6178

The sheet is very open with an even bottom and no large discrepancies from cross lines were noted

Chas R. Bush.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5859 (1935) FIELD NO. 12

Part of East and West Cote Blanche Bays, West of Atchafalaya Bay,
Louisiana

Surveyed in July 1935

Instructions dated June 26, 1934; Jan. 19, 1935 (T. B. Reed)

Hand Lead Soundings.
Pole Soundings.

3 Point fixes on shore signals.

Chief of Party - T. B. Reed.
Surveyed by - J. C. Tribble, J. F. McIlwain.
Protracted by - J. C. Tribble, H. L. Proffitt.
Soundings penciled by - J. C. Tribble.
Verified and inked by - C. R. Bush, Jr.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual, except that no mention is made of the character of the hydrographic signals in the water areas. These are assumed to be of a temporary nature only.

The Descriptive Report is clear and adequately covers all matters of importance.

2. Compliance with Instructions for the Project.

The instructions for the project have been satisfactorily complied with, except that additional development would have been desirable south and southwest of Marone Pt., particularly where the 2 foot shoal is charted.

3. Shoreline and Signals.

The shoreline and topographic signals are from T-6178 (1934), T-6325 (1935), T-6347a and b (1935). The hydrographic signals, except signal "Cot" were located by this party and are recorded in sounding volumes 2 and 7. Signal "Cot" was transferred from H-5852 (1935).

4. Sounding Line Crossings.

The cross lines are in general good agreement with the main system of lines.

5. Depth Curves.

The usual depth curves may be satisfactorily drawn on the sheet.

6. Junctions with Contemporary Surveys.

The junction with H-5852 (1935) on the south will be considered in the review of that sheet.

No other survey has been received in the office that joins the present survey.

7. Comparison with Prior Surveys.a. H-682 (1859).

- (1) This survey is on a scale of 1:20,000 and covers the area of the present survey south of Marone Pt. and east of approximate longitude $91^{\circ}44'$. With the exception of the area close to the east and northeast shores of East Cote Blanche Bay and a few scattered areas the comparison with the present survey shows a general change in the depths as well as some changes in the shoreline has taken place.
- (2) A few shoal spots appear on the old work which fall on the present survey in greater depths by $1/2$ to $3-1/2$ feet. For example, the 3 foot shoaling in approximate latitude $29^{\circ}36'$, longitude $91^{\circ}35.5'$ falls in depths of $6-1/2$ feet. A study of the surrounding depths in nearly all cases with those of the present survey shows that a general uniform deepening has occurred. The present survey adequately covers these shoal areas and should supersede the old work for future charting purposes.
- (3) The present survey did not find Gull Island (uncharted) shown on the old survey about 1 mile south of Marone Pt. which would fall in depths of from 4 to $6-1/2$ feet of water on the present survey. This islet was reported as non-existent in 1913, (See Chart letter No. 342, 1913), but the search revealed a 2 foot shoal instead in the area. In view of the above facts, this islet is evidently non-existent and should not be considered for future charting purposes. (See par. 8a(1) of this review).
- (4) A general shoaling of from 3 to 9 feet has occurred since the old survey, in the vicinity of latitude $29^{\circ}34.8'$, longitude $91^{\circ}41.8'$, and of as much as 6 feet in the deep in the vicinity of latitude $29^{\circ}36'$, longitude $91^{\circ}40'$.
- (5) The east shoreline in the vicinity of latitude $29^{\circ}34.8'$ longitude $91^{\circ}42'$, has moved approximately 100 meters west of the old location, while the neck of land in the same vicinity has narrowed considerably and has eroded a distance of about 400 meters southwardly to the present location.

b. H-1767 (1886).

- (1) This survey is on a scale of 1:20,000 and covers the general area of the present survey between Marone Pt. and the north shore of West Cote Blanche Bay, and also covers the area in approximate latitude 29°38' between longitudes 91°40' and 91°50'. A comparison of the depths in the former area with those of the present survey shows that a general deepening of from 1/2 to 1 foot has occurred, while in the latter area, except in a few places, there is a fair agreement with the present depths.
- (2) Several shoal spots on the old survey fall on the present survey in greater depths by 1/2 to 2-1/2 feet. For example, the 3 foot sounding in approximate latitude 29°39.4', longitude 91°40.1' (charted) falls in depths of 6 feet on the present survey. A study of the surrounding depths of the shoalings with those of the present survey shows, in practically all the cases, that a general uniform deepening has occurred. For these reasons, as well as the adequacy of the development by the present survey, the old work should not be used for charting purposes.
- (3) General changes in the shoreline have taken place, particularly on the south shore of West Cote Blanche Bay and Marone Pt. The former shows an average recession of about 200 meters, while the latter, Marone Pt., has become considerably narrower since the old survey.
- (4) In three small marshy islands (charted) off Marsh Island, in longitude 91°45.5', have diminished considerably in size, while the island in longitude 91°48' has almost disappeared.
- (5) The islets in approximate latitude 29°36', longitude 91°44' (charted), and the one off Lake Pt., latitude 29°34', longitude 91°43.5' (charted) have evidently worn away. Depths of 6 and 5 feet respectively now exist in their place. A considerable recession of the adjacent shoreline has taken place and most likely the same forces have eroded these islets.

8. Comparison with Charts No. 199 (New Print dated Sept. 18, 1935)
No. 1116 (New Print dated Sept. 18, 1935)
No. 1277 (New Print dated Nov. 6, 1935)

a. Hydrography.

Within the area of the present survey the charts are based on surveys discussed in the foregoing paragraphs and contain no additional information that needs consideration in this review except as follows:

- (1) The 2 foot sounding in approximate latitude 29°37' longitude 91°40', (Charts Nos. 199, 1116), falls in an area on the present survey in depths of from 4 to 6 feet. The descriptive report, page 1, states that this shoal could not be found. The sounding was charted from Chart Letter No. 342, 1913, which reported that Gull Island no longer exists but the 2 foot sounding was found instead. From the fact that the island had evidently worn away to a depth of 2 feet in 54 years (1859-1913), the same forces have probably leveled the area still more during the past 22 years, so that the depths shown on the present survey fairly represent existing conditions. The 2 foot sounding should, therefore, be disregarded in future charting.
- (2) The pile in latitude 29°36', longitude 91°39' (Chart No. 199) originates with Chart Letter No. 342, 1913, and falls in depths of 6 feet on the present survey. The pile could not be found by the present survey party. (See Descriptive Report, page 1), and it is quite probable that the pile has either rotted away or has been removed. It should not be used in future charting.

b. Aids to Navigation.

The lighted beacon in "The Jaws", shown in the northeast section of the sheet was charted from Lighthouse Notice to Mariners, No. 3, 1935, and was located by the present survey approximately 300 meters northeast of the charted position. The disagreement in the locations of the same beacon can not be definitely accounted for, except that the Lighthouse field party's determination may be questionable. However, both positions of the beacon fall on the west side of the channel and since the discrepancy is in the direction of the axis of the channel, either position adequately marks the channel for safe navigation. The later determination of the beacon by the present survey should, however, supersede the charted position. Other beacons shown on this survey are not charted.

9. Field Plotting.

The protracting of positions and the plotting of soundings were well done.

10. Additional Field Work Recommended.

No additional work is required.

11. Superseding Old Surveys.

Within the area covered the present survey supersedes the following surveys for charting purposes:

H-682 (1859) in part
H-1767 (1886) in part

12. Reviewed by - G. Risegari, Jan. 11, 1936.

Inspected by - A. L. Shalowitz.

Examined and approved:

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

L. O. Robert
Chief, Division of Charts.

Fred. L. Peacock
Chief, Section of Field Work.

G. H. de
Chief, Division of H. & T.

Applied to Chart 1276 - July 1937 - St. J. Sauter

Applied to Chart 1051 Aug 1937 Char. R. Bush Jr
" " " 1277 Oct. 1937 St. J. Sauter

Applied to Chart 882 March 16, 1949 M. J. J. J. J.

Applied to Chart 881-5C 7-19-71 A. Sunday