

5494

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

AUG 14 1934

Acc. No. \_\_\_\_\_

Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: Louisiana

DESCRIPTIVE REPORT

*Topographic*  
*Hydrographic*

} Sheet No. 5 5494

LOCALITY

Mississippi Delta

Little Lake and Vicinity

1934

CHIEF OF PARTY

Thos. B. Reed

5494

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

AUG 24 1934

Acc. No. \_\_\_\_\_

REG. NO. 5494

HYDROGRAPHIC TITLE SHEET

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. 5

REGISTER NO. 5494

State Louisiana

General locality Mississippi Delta

Locality Little Lake and Vicinity

Scale 1:20,000 Date of survey March April, 1934

Vessel Field Party No. 4.

Chief of Party Thos. B. Reed

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

Protracted by H. L. Proffitt

Soundings penciled by W. B. Reed

Soundings in fathoms feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by

Inked by H. L. Flemer

Verified by H. L. Flemer

Instructions dated October 27, November 22, 1933

Remarks:

*Landmarks received by cartographic section for other areas in this vicinity but not for this sheet were Chart Letter # 560 (1934) which contains a shoal light in this area. Hum*

DESCRIPTIVE REPORT  
to accompany

Hydrographic Sheet No. 5, Northwest of Barataria Bay.

Barataria Bay, Louisiana. Field Party No. 4.

Thos. B. Reed, Chief of Party.

DATE OF INSTRUCTIONS: October 27, 1933; November 22, 1933.  
Letter, April 30, 1934 No. 20 AHH 1990 (4)  
Letter, January 30, 1934 No. 22 MG 1990 (4)

DATE OF SURVEY: March 23 to April 29, 1934.

SURVEY METHODS:

This survey was made by the usual launch hydrographic methods, using a pole marked to feet for the shoaler soundings, and a standard lead-line for the deeper. ✓

This survey was made before the compilation of the photo-topo sheets, which necessitated the hydrographic party's working on a blank boat sheet in the area south of Lat.  $29^{\circ} 30'$  and sketching in the shore line as the hydrography progressed. The shore line north of Lat.  $29^{\circ} 30'$  and west of Long.  $90^{\circ}$  was obtained from a Geological Survey Blue print, scale 1:19,500. (Quad = BARATARIA, LA.)  
*Scale = 31,680 filed in office. Hum.*

DISCREPANCIES:

All changes of objects or angles by the smooth plotter, and notes regarding plotting, are noted in the sounding records. ✓

A few of the positions had to be shifted slightly in smooth plotting, to agree with the photo-topo shore-line. These were usually fixes taken on comparatively distant signals or on weak fixes. In general the hydrography agreed very well with the shore line as compiled from the photographs, and no discrepancies were found. The enlargements of the photo-topo sheets, from which the shore line was obtained for the smooth sheet, were made locally, and were considerably out of scale, and the transfer to the smooth sheet could not be made as accurately as desired. *Discrepancies checked against available photo sheets of region. Hum.*

Station BATISTE, which is off the eastern end of the sheet was used in obtaining the position of signal LOS and for a few positions in Bay Chene Fleur. A small extension was added to the end of the sheet for plotting these positions. *not shown on original sheet.*

COMPARISON WITH PREVIOUS SURVEYS:

No previous hydrography had been done in this area except a small portion at the east. *Hum.*

GENERAL DESCRIPTION OF AREA:

The area covered by this sheet is low, and all land areas are marsh. The bottom is practically all soft mud, which extends to a depth of over 16 feet. This region is very sparsely populated. ✓

Respectfully submitted,

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

TIDAL AREAS  
for  
HYDROGRAPHIC SHEET NO. 5

YEAR  
1934

DATE ---DAY & VOL .NO. ---NO. POSITIONS ---TIME ---TIDE STAFF ---GRAPH NO.  
OR GAGE

March 23 ✓	a - 1 ✓	1 - 93 ✓	14:20:00 ✓ to 17:25:40 ✓	Manila plus 3 hrs	29
March 24 ✓	b - 1 ✓	1 - 119 ✓	10:22:40 ✓ to 15:42:20 ✓	Manila plus 3 hrs.	29
March 25 ✓	c - 1 ✓	1 - 116 ✓	13:37:00 ✓ to 17:32:20 ✓	Manila plus 3 hrs.	29
	a - 6 ✓	1 - 73 ✓	11:16:00 ✓ to 16:22:20 ✓	Little Lake	29
March 27 ✓	d - 2 ✓	1 - 22 ✓	9:41:40 ✓ to 10:15:20 ✓	Hackberry	29
	b - 6 ✓	1 - 101 ✓	10:11:00 ✓ to 16:29:30 30:00	Little Lake	29
March 28 ✓	e - 2 ✓	1 - 190 ✓	9:57:00 ✓ to 16:55:40 ✓	Little Lake	30
	c - 6 + 7 ✓	1 - 86 ✓	8:58:20 ✓ to 15:49:20 ✓	Little Lake	30
March 29 ✓	f - 2 + 3 ✓	1 - 167 ✓	8:50:00 ✓ to 16:26:40 ✓	Manila plus 4 hrs.	30
April 5 ✓	d - 7 ✓	1 - 94 ✓	10:02:00 ✓ to 16:32:20 ✓	<del>Little Lake</del> Manila + 6 hrs. ✓	30
	e - 3 ✓	1 - 65 ✓	8:40:40 ✓ to 15:06:00 ✓	Manila from Barataria	30
April 6 ✓	h - 3 ✓	1 - 42 ✓	11:13:00 ✓ to 14:14:40 ✓	Little Lake	30
		43 - 78 ✓	14:43:00 ✓ to 16:31:40 ✓	St. Denis	30
April 7 ✓	j - 3 + 4	1 - 151 ✓	8:17:20 ✓ to 16:59:00 ✓	St. Denis	31

TIDAL AREAS  
for  
HYDROGRAPHIC SHEET NO. 5 (cont.)

YEAR  
1934

DATE ---DAY & VOL NO. ----NO. POSITIONS ----TIME ----TIDE STAFF ----GRAPH NO.  
OR GAGE

April 8	k - 4	1 - 107	8:56:40 to 14:38:00	Manila	31
April 9	l - 4	1 - 34	9:20:20 to 11:56:40	St. Denis	31
April 24	m - 5	1 - 32	15:00:40 to 17:17:20	Batiste	31
April 25	n - 5	1 - 146	9:24:00 to 16:33:20	Batiste	32
April 29	e - 8	1 - 38	15:13:20 to 17:51:20	St. Denis	32
May 17	p - 5	1 - 31	7:08:40 to 7:56:00	St. Denis	32

# STATISTICS FOR

## HYDROGRAPHIC SHEET NUMBER 5

YEAR

1934

DATE	DAY LETTER	VOL. NO.	STATUTE MI. SOUNDINGS LINES	NO. SOUNDINGS	NO. POSITIONS
Mar. 23	a	1	15.2	486	93
Mar. 24	b	1	23.4	787	119
Mar. 25	c	1	18.5	626	116
Mar. 27	d	2	01.0	83	22
Mar. 28	e	2	25.0	1065	190
Mar. 29	f	2&3	32.3	1160	167
Apr. 5	g	3	14.2	471	65
Apr. 6	h	3	22.5	694	78
Apr. 7	j	3&4	35.0	1153	151
Apr. 8	k	4	18.0	601	107
Apr. 9	l	4	02.0	140	34
Apr. 24	m	5	08.0	202	32
Apr. 25	n	5	28.0	896	146
May 17	p	5	04.7	135	31
Mar. 25	a	6	22.0	597	73
Mar. 27	b	6	30.0	831	101
Mar. 28	c	6&7	20.1	622	86
Apr. 5	d	7	25.0	665	94
Apr. 29	e	8	19.8	456	38
TOTAL			384.4	11669	1743

AREA IN SQUARE STATUTE MILES: 58

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 5494.

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

Number of positions on sheet	1743..
Number of positions checked	208.
Number of positions revised	...11.
Number of soundings recorded	11669.
Number of soundings revised	...319.
Number of signals erroneously plotted or transferred	....0.

Date: ..... Dec. 17, 1934 .....

Cartographer: ..... H. L. Flemer .....

Verification of pretracing  
Verification & inking of rocks and shoals) by H. L. Flemer

Time: 30 hr

Verification of inking by H. L. Flemer

Time: 47 hr.

Review by

H. W. Murray  
R. L. Johnston

Time: 9 1/2 "  
9 "

Sept. 10, 1934.

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in  
8 volumes of sounding records for

HYDROGRAPHIC SHEET 5494

Locality **Little Lake and Vicinity, Northwest of Barataria Bay,  
Louisiana Coast.**

Chief of Party: **T. B. Reed in 1934**

Plane of reference is **mean low water reading**

**2.9 ft. on tide staff at Little Lake**

**1.6 ft. below B. M. 1**

**2.7 ft. on tide staff at Manila**

**2.1 ft. below B. M. 1**

**2.5 ft. on tide staff at Bayou St. Denis**

**3.2 ft. below B. M. 1**

**2.8 ft. on tide staff at Batiste Bay.**

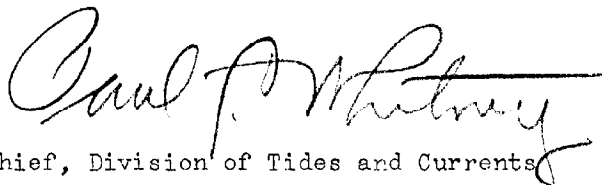
**2.0 ft. below B. M. 1**

**1.9 ft. on tide staff at Hackberry Bay**

**2.0 ft. below B. M. 1**

**Height of mean high water above plane of reference is approx. 1.0 ft.**

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents



Add the following

✓ Bayou Brusle

✓ Old Grand Bayou

✓ Coffee Rd. N. Bay

} from information furnished  
by U.S.G.S  
K.T.A.

Survey No. 5494

## GEOGRAPHIC NAMES

Date. Dec 20, 1934Chart No. 1116 & 197

Names underlined in red approved Dec 20, 1934

Diagram No. \_\_\_\_\_

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

†, Not Approved by the Division of Geographic Names, Department of Interior.

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

USGS = U.S. Geological Survey  
US Engrs = US Engrs. Map of So. La. 1934Harlow Bacon

Status	Name on Survey	Name on Chart or other Maps	New Names in local use	Names assigned by Field	Location
✓	<u>Little Lake</u>	1116 USGS			29° 31' 90° 9'
✓	<u>Bay L'Ourse</u>	1116 USGS			29° 31' 90° 13'
✓	<del>Shell Point</del> official Map of La, 1871 change to Plum Pt. KTA				29° 29'
✓	<u>Round Lake</u>	Bay USGS US Engrs			90° 10'
✓	<u>Lake Brusle</u> change to <del>Brusle</del> Brusle Lake USGS KTA US Engrs.				29° 27.5' 90° 13'
✓	<u>Turtle Bay</u> USGS US Engrs	Lake Villere (1116)	Turtle Bay		29° 32' 90° 8'
✓	<u>Bayou St. Denis</u>	1116 USGS			29° 31' 29° 28' 89° 59' 90° 5'
✓	<u>Harvey Cutoff</u>	1116 US Engrs.			29° 34' 90° 8'
✓	<u>Dupree Cutoff Canal</u>	US Engrs			29° 34' 90° 3'
✓	<u>Grand Bayou</u> (3)	1116 USGS US Engrs			29° 25.5' 89° 59'
✓	<u>Flat Bayou</u> change to <del>Manilla Bayou</del> Top 5300 KTA USGS				29° 26.6 90° 4.5'
✓	<u>St. Joseph Bay</u>	Top 5300			29° 27'
✓	<del>Old Grand Bayou</del> USGS US Engrs	<del>Bayou Dobre</del> Top 5300 <del>Bay Dobre</del> Top 5300	Same Dosgris Bayou Dobre Bay Dobre		90° 4'
✓	<u>Barataria Bay</u>	1116			
✓	<u>Snail Bayou</u>	Top 5300 USGS	Bay Dosgris		29° 26' 90° 4.5'
✓	<u>Coffee Bay</u> change to <del>Snail Bay</del> Top 5300 KTA USGS				29° 26' 90° 4'
✓	<u>Bayou Cutler</u>	1116 US Engrs	Same		29° 31' 90° 2'
✓	<u>Mud Lake</u>	Top 5300 USGS			29° 28' 90° 1'
✓	<u>Wilkinson Bay</u>	1116 US Engrs			29° 29' 89° 55'
✓	<u>Wilkinson Canal</u> US Engrs				29° 29.5'
✓	<u>Wilkinson Bayou</u> (2)	1116 USGS			89° 54.5'
✓	<u>Bay Chene Fleur</u> US Engrs	Bay Chen Fleur USGS	No word "Chen" in French		29° 29' 89° 54'
✓	<u>Pt. Pecheur</u> 1116				29° 31.9'
✓	<u>Bayou Rigolottes</u> (29° 34' - 90° 10')				90° 10.8'
✓	<u>Point La Gaudie</u> Official Map of La, 1871	<del>Pt. Lagard</del> 1116			27° 33.5' 90° 10.5'
✓	<u>Wilkinson Canal</u> 1116				29° 28'
✓	<u>Coffee Bayou</u> Prefer this H.B. USGS 1935 NO.	Coffee Point Bayou USGS US Engrs	Coffee Bayou (Survey Party)		29° 27' (M 100) 90° 6'

*Verification* Report on H. 5494.  
Dec. 17, 1934

1. The records conform to the requirements of the General Instructions. *except as noted in the review*
2. The usual depth curves can be drawn ~~in the area south of latitude 29°30'~~.
3. The field plotting was complete.
4. A few minor shoreline corrections were made in that portion of the sheet covered by available topo sheets.
5. The junction with H. 5491 appears to be satisfactory. No junctions were made with other adjoining sheets as they are incomplete.
6. A note in pencil on the smooth sheet states that the deep hole in Little Lake (lat. 29°33'.8, long. 90°10'.6) was caused by dredging for road material.

Southwest of this hole is a shell reef which was inked in on the boat sheet and located by notes in the sounding records (Vol. 7, page 24-25). In this same area are two other reefs that do not appear on the boat sheet. These are described in Vol. 7, page 4 and Vol. 6, page 70 and were plotted accordingly. *assumed to be ref to sheet 2. Drawn. Plotted from sheet 70.*

The hydrography of the western half of Lake L'Ourse (Lat. 29°30'.5, Long. 90°13') depends upon the location of positions 33 and 34h. These are not three point fixes. The sketch of the topography in the sounding records (Vol. 3, page 45, pos. 33h) bears little resemblance to the shore line shown on the smooth sheet. No topographic sheet covering the above mentioned areas (n. of 29°30') was available for comparison with the smooth sheet. The topography conforms in general with the recent Geological Survey (1932). *mentioned in review*

No ~~Lighthouse Service chart of~~ forms 567 and 524 were found in the files.

*Submitted in part by logist list.*

Submitted by - H. L. Flemer.

80

POST-OFFICE ADDRESS: Morgan City, Louisiana.

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

February 4, 1935.

To: The Director, U. S. Coast and Geodetic Survey.  
From: Thos. B. Reed, Chief of Field Party No. 4.  
Subject: Location of beacons, Sheet No. H - 5494.  
Reference: Director's letter of February 1, 1935, No. 80-CFT.

You are respectfully advised that the three beacons referred to in the above letter were reported to me by the hydrographic party as not being in existence at the time of the survey.

All other charted lights and beacons within the area of the Barataria Bay survey were in existence at the time of the survey.



Thos. B. Reed,  
Lieut., C. & G. Survey.

80-CFT

February 1, 1935.

To: Lieutenant Thomas B. Reed,  
U. S. Coast and Geodetic Survey,  
General Delivery,  
Morgan City,  
Louisiana.

From: The Director,  
U. S. Coast and Geodetic Survey.

Subject: H-5494

Your hydrographic survey of Little Lake and vicinity in the Mississippi Delta, No. 5494 (1934), has recently been verified and reviewed in this Office. During the review it was noted that two beacons in Turtle Bay, and the beacon at the entrance to Bayou Rigolettes were not located on your survey, nor were they mentioned in the descriptive report. There is therefore some doubt as to whether these beacons are still in existence; and you are requested, after an examination of the chart of this area, to notify this Office definitely as to any beacons within the areas of this survey which are not now in existence.

(Signed) J. H. RAWLEY,  
Acting Director.

## Section of Field Records

### REVIEW OF HYDROGRAPHIC SURVEY No. 5494 (1934)

Little Lake and Vicinity, Louisiana.  
Instructions dated Oct. 27 and Nov. 22, 1933 (L. C. Wilder)  
Surveyed March-April, 1934

#### Hand Lead and Pole Soundings - 3-Point Control on Shore Signals

Chief of Party - Thos. B. Reed.  
Surveyed by - J. C. Tribble, J. F. McIlwain.  
Protracted by - H. L. Proffitt.  
Soundings penciled by - W. B. Reed.  
Verified and inked by - H. L. Flemer.

#### 1. Condition of Records.

The records are neat, legible and conform to the requirements of the Hydrographic Manual except as follows:

- a. About half of the triangulation stations shown on the smooth sheet were shown without the dates of establishment. These were added in the office.

#### 2. Compliance with Instructions for the Project.

In Bayou St. Denis which is one of the entrances to the Intra-coastal waterway, the development is inadequate for a true configuration of the bottom as required by paragraph 9 of the Instructions for the project.

#### 3. Sounding Line Crossings.

Such cross lines as were run or result from the work are satisfactory. Average agreement in flat areas is within  $\frac{1}{2}$  feet. In uneven bottom, differences of 1 and 2 feet occur frequently.

#### 4. Depth Curves.

The usual depth curves may be satisfactorily drawn including the major portion of the 6 foot curve.

#### 5. Junction with Contemporary Surveys.

The junction with H-5491 (1933-34) on the south and H-5495 (1934) on the east, is satisfactory.

The junction with H-5492 (1933-34) on the southeast is satisfactory.

#### 6. Comparison with Prior Surveys.

##### a. H-2091 (1878)

Soundings of this survey in WILKINSON BAY, WILKINSON BAYOU and BAY CHENE FLEUR vary from  $\frac{1}{2}$  to 1 foot deeper than those of the present<sup>survey</sup>.

No surveying was accomplished north of lat.  $29^{\circ}30'$ , between long.  $89^{\circ}52'$  and long.  $90^{\circ}01'$ , since this is the northern limit of the proposed chart No. 1273. This area is covered by H-2091(1878). The soundings of the present survey are in fair agreement at the junction and H-2091(1878) may be used in charting the area north of lat.  $29^{\circ}30'$  until it is resurveyed.

In the area just west of long.  $89^{\circ}55.5'$ , H-2091(1878) shows soundings in several small lagoons which were not covered by the present survey. The contour of some of the small marsh islands has changed in this locality, however the soundings from H-2091(1878) may be used to fill in blank areas provided they are in agreement at the junction with those of the present survey.

b. There are no previous hydrographic surveys westward of long.  $89^{\circ}56'$ .

Comparison with Chart No. 196.

7. a. Soundings shown on the above chart originate with surveys discussed in the foregoing paragraphs of this review and need no further consideration.

b. Fixed Aids to Navigation and Channels

The beacon in lat.  $29^{\circ}29'8$ , long.  $90^{\circ}01.0$  was located on the present survey in practically the same position as shown on the chart.

The charted beacons and channels in LITTLE LAKE and TURTLE BAY originate with Chart Letter No. 143 (1914) and were spotted on a section of Chart No. 196 (by Lighthouse Bureau) in relation to the shoreline, which shoreline differs in geographic position from that shown on the present survey and accounts for the discrepancy of about 800m in the beacons located on H-5494(1934) in lat.  $29^{\circ}27'7$ , long.  $90^{\circ}06'6$  and lat.  $29^{\circ}33'2$ , long.  $90^{\circ}11'4$ . The two beacons in TURTLE BAY and the beacon at the entrance to BAYOU RIGOLETTES have been discontinued (see letter from Chief of Party dated February 4, 1935 attached to D. R.)

Soundings on the present survey show no indication of the channels (spotted on chart, see previous paragraph) in the positions as shown on the chart. However, line 85 to 88d (lat.  $29^{\circ}33'4$ , long.  $90^{\circ}11.2$ ) was run in a channel which is approximately 550m. SE of the charted position.

- c. One sounding line through Dupree<sup>Cutoff</sup> Canal, indicates that the controlling depth may now be 7 feet. The "6 feet 1932" was charted by authority of U. S. E. Report, 1932.

8. Field Plotting.

Field protracting and plotting were accurate and conform to the requirements of the Hydrographic Manual.

9. Additional Field Work Recommended.

For a complete survey of the area within the limits of the present survey the following additional work should be accomplished:

- a. In Bayou St. Denis between Long. 90°01' and Long. 90°05' the development should be such as to permit the drawing of the significant depth curves. This bayou is a part of the Intra Coastal Waterway.
- b. A delineation of the channel from Little Lake into Bayou Rigolette.
- c. If Lake Brusle (lat. 29°29.5', long. 90°12.5') is navigable a line of soundings should run through the entrance and a few soundings obtained in the lake.

10. Superseding Previous Surveys.

Within the area covered H-5494(1934) supersedes the following survey for charting purposes:

H-2091 (1878)

In part.

11. Note to Compiler.

The topography shown on the northwestern portion of this sheet (west of 90°00' and north of long. 29°30') originates with a Geological Air Photo survey of 1932 (Quad: BARATARIA, LA) and is on file in this office. This shoreline may have undergone changes prior to the present survey for a sketch in the sounding records (Vol. 3, page 45) bears little resemblance to the shoreline shown in the vicinity of lat. 29°30.6', long. 90°13.8'.

12. Reviewed by - Harold W. Murray

January 22, 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

K.T. Adams  
~~Chas. K. Green,~~

~~Asst Chief, Section of Field Records.~~

~~Division of Charts~~  
J.B. Dorden  
Chief, Section of Field Work.

L.O. Lobat  
Chief, Division of Charts.

G. Hude  
Chief, Division of H & T.



applied to chart 1273 - Nov 1935 - H.S. Gault  
" " " 1271 Jan 1938 J.H.S.

NEP Cht. 11365A Fully Applied 3/82 TWS  
(New Chart construction)