

5825

U. S. COAST & GEOD.
LIBRARY AND ARCH.

JUL 15 1935

Acc. No. _____

Form 504
Rev. Dec. 1933

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

DESCRIPTIVE REPORT

~~Hydrographic~~
Hydrographic

Sheet No. 6

State Louisiana

LOCALITY

Vicinity of South ^{west} Reef

Atchafalaya Bay

193 5

CHIEF OF PARTY

Thos. B. Reed

5825

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. 6

REGISTER NO. **5825**

State Louisiana

General locality Atchafalaya Bay

Locality Vicinity of Southwest Reef

Scale 1:20,000 Date of survey Feb. 23 to Mar. 24, 1935

Vessel Field Party No. 4.

Chief of Party Thos. B. Reed

Surveyed by J. F. McIlwain

Protracted by H. L. Proffitt

Soundings penciled by H. L. Proffitt

Soundings in ~~fathoms~~ feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by

Inked by S. R. Ludlow

Verified by S. R. Ludlow

Instructions dated June 26, Sept. 15, 1934; Jan. 19, 1935

Remarks:

DESCRIPTIVE REPORT
to accompany

Hydrographic Sheet No. 6, Vicinity of Southwest Reef, Atchafalaya Bay.

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: February 23 to March 24, 1935.

SURVEY METHODS:

This survey was made by the usual launch hydrographic methods, using a pole marked to feet for most of the soundings and a standard lead line for the few deep soundings.

DISCREPANCIES:

All discrepancies in positions were noted by the smooth plotter in the sounding records.

GENERAL DESCRIPTION:

The northern section of this sheet is quite foul with a considerable number of oyster reefs. Reefs that were too shoal for crossing by the hydrographic launch were sketched on the boat sheet by the hydrographer. Lines were run as close to the reefs as possible with safety.

COMPARISON WITH PREVIOUS SURVEYS:

Copies of hydrographic sheets of the 1888 survey in this region are not available for making a comparison. A general comparison with chart No. 199 shows differences of considerable magnitude in the reefs at the northern part of the sheet. Most of these shell reefs are of live oysters and considerable change is to be expected over a long period of years. The reef, bare at low water on position 112f does not appear on Chart No. 199. The area in the southern part of the sheet is shoaler by several feet in places from the soundings of the old survey.

Comparison with actual surveys reveals better agreement than indicated on the chart. *H. S. M.*

Lat. 29° 24' 4"
Long. 91° 34' 2"

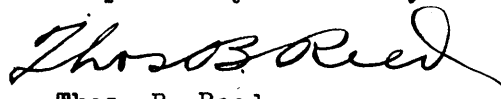
JUNCTION WITH CONTEMPORARY SURVEYS:

This sheet joins on the north and west with sheet No. 5, and on the east with sheet No. 4 of the present survey. A junction on the south is to be made by surveys of the Ship HYDROGRAPHER during the present field season.

TIDE REDUCERS:

Tidal reductions are shown on the attached sheet.

Respectfully submitted,



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

STATISTICS FOR SHEET NO. 6

(Atchafalaya Bay)

YEAR 1935	DAY	VOL.	STATUTE MI.	NUMBER	NUMBER
DATE -----	LETTER	NO. -----	SDG. LINES --	SOUNDINGS ---	POSITIONS ---
Feb. 23	a	1	1.2	26	4
March 14	b	1	26.6	640	81
" 15	c	1 & 2	48.6	1147	140
" 16	d	2	45.3	1066	135
" 22	e	2 & 3	36.2	871	122
" 23	f	3	18.0	675	116
" 24	g	3	5.5	119	35
TOTAL -----			181.4	4544	633

NO. SQ. MILES AREA OF SOUNDING -- 20

HYDROGRAPHIC SURVEY NO. 5825

Smooth Sheet 1

Boat Sheet 1

Sounding Records 3 Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes in Vol. 1

Landmarks for Charts (Form 567) None

Statistics Yes

Approved by Chief of Party T.B.Reed

Recoverable Station Cards (Form 524) Yes

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

Remarks _____

Field Records Section (Charts).

HYDROGRAPHIC SHEET NO. ...5825

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

Number of positions on sheet	633.
Number of positions checked	..19.
Number of positions revised	...0.
Number of soundings recorded	4544
Number of soundings revised4.
Number of signals erroneously plotted or transferred

Date: Aug 13, 1935

Verification by S.R. Ludlow

Time: 30 hrs.

Review by Harold W. Murray

Time: 4 1/2 "

Ver. Corrections by " "

" 14 "

TIDE NOTE FOR HYDROGRAPHIC SHEET

July 24, 1935.

Division of Hydrography and Topography:

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

Tide Reducers are approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET 5825

Locality Vicinity of Southern Reef, Atchafalaya Bay, Louisiana.

Chief of Party: Thos. B. Reed in 1935.
Plane of reference is mean low water reading.
1.4 ft. on tide staff at Eugene Island
4.2 ft. below B.M. 1

Height of mean high water above plane of reference is 1.3 feet at Eugene Island.

Condition of records satisfactory except as noted below:

Atty *Ham*
Chief, Division of Tides and Currents.

Aug. 13, 1935

Report on Sheet 7.5825.

The records are complete and conform to the requirements of the General Instructions.

The usual depth curves could not be completely plotted because on the northern part of the sheet (the only place where there are any curves) the depths change so abruptly it was not possible to get all the curves in. Considered satisfactory. *exam*

The field plotting was very satisfactory and was complete to the extent prescribed in the Hydrographic Manual.

Sheets 7.5824 and 7.5852 are not yet verified so that junctions could not be made.

The delineation of the depth curves by the field plotter was satisfactory.

S.R. Ludlow.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5825 (1935) - FIELD NO. 6

Vicinity of Southwest Reef, Atchafalaya Bay, Louisiana

Surveyed in 1935

Instructions dated June 26, 1934 (T. B. Reed)

Hand Lead and Pole Soundings.

3 Point Fixes on Shore Signals.

Chief of Party - Thos. B. Reed.

Surveyed by - J. F. McIlwain.

Protracted by - H. L. Proffitt.

Soundings penciled by - H. L. Proffitt.

Verified and Inked by - S. R. Ludlow.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual, except that no reference station nor geographic datum was indicated on the smooth sheet. This was added in the office.

The "Descriptive Report" is clear and comprehensive and satisfactorily covers all matters of importance.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project.

3. Control.

The control used on this survey is from triangulation stations and several sextant located signals.

4. Sounding Line Crossings.

Such cross lines as were run or result from the work are satisfactory.

5. Depth Curves.

The usual depth curves may be satisfactorily drawn.

6. Junctions with Contemporary Surveys.

a. The junction on the east with H-5824 (1935) is satisfactory.

b. The junction on the north with H-5852 (1935) will be considered in the review of that survey.

c. The junction on the south and southwest will be considered when that work is received from the field.

7. Comparison with Prior Surveys.

H-658 (1858) H-1831 (1888-89)
H-681 (1859) H-1933 (1889)

Soundings of the above surveys generally vary 1 to 3 feet deeper than the present survey. A number of shoals or oyster reefs located on the old surveys are confirmed and adequately developed on H-5825 (1935), the only exception being the single 4 foot sounding (incorrectly plotted as 5 feet and so charted) originating with H-1933 (1889) in lat. 29° 23.8', long. 91° 33.2'. The 4 represents the depth on an oyster reef, and falls close to 8 foot depths on the present survey. However, the depths surrounding this reef on the old survey are in close agreement with those on the present survey. In view of the close agreement in position and depth existing with other shoal spots on the 1889 survey, and the failure to examine this reef on the new survey, the 4 has been retained.

8. Comparison with Chart No. 199 (Corrected to January 26, 1934).

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraphs and contains no additional information that needs consideration in this review.

9. Field Plotting.

Field protracting and plotting are excellent in every respect.

10. Additional Field Work Recommended.

Aside from the undeveloped 4 foot sounding discussed in paragraph 7 of this review, the survey is complete and no additional field work is required.

11. Superseding Previous Surveys.

Within the area covered, H-5825 (1935) with the indicated additions from prior surveys supersedes the following surveys for charting purposes:

H-658 (1858) in part.	H-1831 (1888-89) in part.
H-681 (1859) " "	H-1933 (1889) " "

12. Reviewed by - Harold W. Murray, October 2, 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

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

A. O. Gilbert
Chief, Division of Charts.

F. J. Borden
Chief, Section of Field Work.

W. H. Rude
Chief, Division of H. & T.

applied to Oct. 1876 - July 1937. H.O.G.