

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

AUG 2 1935

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FORM 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

R. S. PATTON, DIRECTOR
DESCRIPTIVE REPORT
Taxasacohic   Sheet No. 5
State Louisiana
LOCALITY
(Western Part)
Atchafalaya Bay
193 5
CHIEF OF PARTY
Thos. B. Reed

U. S. GOVERNMENT PRINTING OFFICE: 1934

Form 537 Ed. Sept., 1929

#### DEPARTMENT OF COMMERCE

U. S, COAST AND GEODETIC SURVEY

# U. S. COAST & GEODETIC SURVEYOR LIBRARY AND ARCHIVES

AUG 2 1935

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### 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. \_\_\_\_5\_\_\_\_

REGISTER NO. $5852$	
State Louisiana	
General locality Atchafalaya Bay 15	
Locality (Western Part) of Atchafalaya Bay	
Scale 1:20,000 Date of survey Jan. 26, to July 11 1935	
Vessel Field Party No. 4.	
Chief of Party Thos. B. Reed	
Surveyed by E. H. Mahar, J. F. McIlwain, J. C. Tribble, H. W. Richard	ls.
Protracted by H. L. Proffitt, T. F. Donlon.	
Soundings penciled by H. L. Proffitt	
Soundings in <b>xations</b> feet	
Plane of reference M. L. W.	
Subdivision of wire dragged areas by	
Inked by Sex Merandon CF. McKenney	
Verified by Looblinail	
Instructions dated June 26, Sept. 15, 1934; Jan. 19 , 1935	
Remarks:	

# DESCRIPTIVE REPORT to accompany

Hydrographic Sheet No. 5, Western Part of 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:

January 26 to July 11, 1935.

#### SURVEY METHODS:

This survey was made by the usual launch hydrographic methods, using a pole marked to feet for the shoal soundings and a standard lead line for the deeper sounding. Oyster reefs which were too shoal to be crossed by the sounding launch were sketched on the boat sheet by the hydrographers.

#### DISCREPANCIES:

Any discrepancies in positions found by the smooth plotter were noted in the sounding records. Outlines of oyster reefs were transferred from the boat sheet, making changes in some places to correspond with reduced soundings.

#### GENERAL DESCRIPTION:

This sheet includes the western part of Atchafalaya Bay and the southern part of East Cote Blanche Bay. With the exception of the high trees along the shore between TUCKY and SALT the entire land area is marsh. The sheet includes many shoals and cyster reefs, which were developed as closely as thought economically advisable considering the relative unimportance of the area.

#### COMPARISON WITH PREVIOUS SURVEYS:

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

No. 199) have entirely washed away and there are no longer any high water features in these positions.

# JUNCTION WITH CONTEMPORARY SURVEYS:

on the north with sheet No. 12, on the east with sheets Nos. 3, 4 and 6 and on the south with surveys of the Ship HYDROGRAPHER, 1935.

#### GEOGRAPHIC NAMES:

This topic is covered in the descriptive report of Topographic sheet "J".

#### TIDE REDUCERS:

Tidal reductions are shown on the attached sheets.

Respectfully submitted,

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

STATISTICS FOR SHEET NO. 5

YEAR 19 <b>3</b> 5		DAY		VOL,		STATUT				NUMBER
DATE		LETTER		No.		• SDG.	LINES	-SOUNDING	}S	POSITIONS.
Jan.	26	a		1		5	•0	140		15
11	2 <b>7</b>	b		ī			.2	978		145
ñ	28	0		ī			<b>.</b> 8	960		127
11	29	đ	*	1 &	2		•0	6 <b>86</b>		100
11	30	e		2	-		.2	818		139
Feb.	5	f		2			<b>.4</b> /	604		80
"	6	g		2 &	3		•6	65 <b>7</b>		94
11	7	ĥ		3	_		•0	1028		132
11	8	j		3			•5	895		123
11	9	ĸ		4			.8	972		137
11	10	1		4			.8	1125		<b>14</b> 8
11	13	m		4 &	5		•0	3 <b>4</b> 2		5 <b>6</b>
11	14	n		5			.2	990		165
11	21	p		5			•5	913		135
11	22	q		6			•6	193		27
tt	23	ŗ		6			•0	695		92
11	25	S		6			<b>5</b>	418		58
May	7	a		7		11	•4	271		3 <b>1</b>
n	8	ъ		7 &	8	104		2383		274
11	11	O		8 &	9	60	•4	1560		180
tt	12	đ		9		44	·•2	1066		126
tt	13	θ		9 &	10	60	•4	1438		171
tī	14	f		10 &	11	63	·8	1542		172
11	15	g		11		26	.1	620		71
11	2 <b>2</b>	g h		11 &	12	56	•0	1372		<b>1</b> 59
11	23	j		12			•0	73		9
11	24	k		12		61	5	1401		169
11	25	1		12 &	13		.•5	1105		128
11	28	m		13 &	14		<b>8</b> •8	1082		131
91	3 <b>0</b>	n '		14			•0	704		127
June	12	p		14			•7	<b>4</b> 86		62
tt	13	q		14 &	15		•0	<b>74</b> 8		99
11	19	r		15			•3	241		<b>32</b>
11	20	8		15			.2	412		55
11	21	t		15 &	: 16		•9	76 <b>7</b>		108
	22	u		16		18	.7	52 <b>7</b>		<b>7</b> 5
11	23	. 7		16		18	2	512		74
11	24	W		16 &	17		•1	761		140
11	25	x		17			-6	418		<b>7</b> 6
11	26	y		17			• <del>7</del>	479		88
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July "	8	a¹		18			•0	867		115
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ń	10	01		18 &	19		• 3	790		109
	11	d¹		19		25	8.	6 <b>62</b>		83
	Carrie	ed forwa	rd			1418	<b>3</b>	3 <b>5758</b>		4815

#### STATISTICS FOR SHEET NO.5

YEAR			ŕ			
1935		DAY	VOL.	STATUTE MI.	NUMBER	NUMBER
DATE		LETTER	- NO	SDG. LINES	SOUNDINGS	POSITIONS
		Brought	forward	1418.3	35758	4815
June	19	a	20	18.2	476	<b>7</b> 0
11	20	Ъ	20	19.6	517	88
11	21	G -	20	19.3/	555	122
11	22	d	20 & 21	34.2	870	149
Ħ	23	е	21	18.2	427	62
11	25	f	21 & 22	35.1	885	141
11	26	g	22	31.7	836	144
11	27	g h	22	13.5	372	77
		TOTAL		1608.1	40696	5668

SQ. MI. AREA OF SOUNDINGS ---- 160 SQ. MI.

# HYDROGRAPHIC SHEET NO.

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

Number of positions on sheet

Number of positions checked

Number of positions revised

Number of soundings recorded

Number of soundings revised

Number of signals erroneously

plotted or transferred

Brid Key no longer exists: Pass Foundary was not miled on HJKIN

**\** 

# HYDROGRAPHIC SURVEY NO. H5852

Smooth Sheet	
Boat Sheet	
Sounding Records	22 Vols
Descriptive Report	Yes
Title Sheet	Yes
List of Signals	Yes in Vol. 1
Landmarks for Charts	(Form 567) <u>None</u>
Statistics	Yes
Approved by Chief of	Party T. B. Reed
	Cards (Form 524) <u>Yes</u>
Special Chart for Lig (Circular Nov.	Shthouse Service None no charted aids 30,1933)
Remarks	

Survey No	H58 <b>52</b>
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GEOGRAPHIC NAMES
LOUISIANA

Chart N	1116	199
Cilaiti	10	

Diagram No. 1116-2

Approved by the Division of Geographic Names, Department of Interior. \*\footnote{X} 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
		- East Cote Blanche Bay			/
		Point Chevreuil			
		Morrison Cutoff			
		Rabbit Island			
		Page Fourther *			
		Bird Koy			
		South Point			
· · · · · · · · · · · · · · · · · · ·			unused Lightho	ds e)	·
•	Bayou Blanc V	Bayou Sale Bay			•
					<del></del>
		ļ			
		APPROVED NAMES UNDERLINED IN RED H.L. Flemer			
		H.L.Flemer.			
					7

#### TIDE NOTE FOR HYDROGRAPHIC SHEET

Division of Hydrography and Topography:

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

Tide Reducers are approved in 22 volumes of sounding records for

HYDROGRAPHIC SHEET 5852

Locality Atchafalaya Bay, Western Part, Louisiana

Chief of Party: Thomas B. Reed in 1935
Plane of reference is mean low water reading
2.6 ft. on tide staff at Point Chevreuil
2.3 ft. below B.M.1
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 1.1 ft at Point Chevreuil; 1.3 feet at Eugene Island

Condition of records satisfactory except as noted below: Changes of tide gages were given on a separate sheet, but should also have been entered in sounding volumes.

Chief, Division of Tides and Currents.

Section of Field Deconds. Reporton Hydrografhie Decorey ks. 5852 (FIELD No. 5.) 1935,

It have ord sare heard legible and conformed the requirements of the Andrographic Wannal else for that the bay letters worded in the sounding Volumes, to riok always a gree with those on the sheet in respect & color and upper or lower case. For example "Dlay" and "E day" in seconds in lead partiel (See Vol. 12.) and shown on the sheet cas "d'and "e'(green) or Horoever this caused to confusion and "we changes were made.

It he shore-line ond growthen with T. 6325(1935). Control is from the few to papablic signal for T-63D5(1935), supplemented by veriforary hydrographic signal established during the progress of the Hydrography.

There are no aid photo Compilation surveys within the limits of this Hydrographic sheet. (45852-1935)

3. Sounding hive Crossings Sounding line crossings except that line 16' (blue) to between 1 14 and 15 b' fline) is consistently 1 foot too deeps. This is shourd by the munerous crossings of the main Bystem of lines in the section of The skiet ( Cory 9143.4 Fax 29:32.6' & Let 29-29.11) This line was inadvertently inked. (16't between 144 156 blue) It has been expunded from the smooth sheet and an appropriate not has been made in the sounding Meonds. 4. Septh Curves The depth curses are generally irregular throughout the limits of the sheet. On effort was made I amosth the Expost Curve by inking or not inking the 20 the this delpth. Sudden changes in depth accent, mat of which are between shell reefs!

5. Junelions With Contemporary Kurvays. (a) the functions with H-5859(1935) on the north; # 5837(1935) on the south, west; and A-5825 (135) on the south aresatisfactory (4.) The function with H-5790(1934-35) on the east is satisfactory but frequent differences in defth of one foot occur. The curves fair fairly well - the most unlikely curve is noted undat 2128.25 dong 91-29.3 (c) The function with H. 58241935) althout penerally odlistactory shows differenced from to 1 foot. Ime inequilarity in the 6 food curve is noted in Lat 2934. 3 song 91-29.6 The un natural curves are not considered serious, only slight changes in meandering autes! 6. tulo Holling The fill plotting was estrofuetory 7 Kemark (a) Shell reefs are in general indicated by a black bushed like except where frese are enough "o "sounding to use the yellow curte notes fertaling thereto are theken from the record bolomes and the fool sheet. (b.) Soundings in large flatareas were theme! in accordation with office procuding (c) a canal 3m. wide entering Bayon Plane at D Sta LOWEN EMID 1933 is not Alrowed o the Hydrogusphie ohet (H-5852) but appears 1-6395() \* This has been added Feb./2/136. inthe Office (8)

#### Section of Field Records

#### REVIEW OF HYDROGRAPHIC SURVEY NO. 5852 (1935) FIELD NO. 5

Atchafalaya Bay, Western Part, Louisiana
Surveyed in Jan - July 1935
Instructions dated June 26, Sept. 15, 1934; Jan. 19, 1935
(T. B. REED).

#### Hand Lead and Pole Soundings.

3 Point fixes on shore signals, and temporary signals in the water areas.

Chief of Party - Thos. B. Reed.

Surveyed by - E. H. Maher, J. F. McIlwain, J. C. Tribble, H. W. Richars.

Protracted by - H. L. Proffitt, T. F. Donlon.

Soundings penciled by - H. L. Proffitt.

Verified and inked by - L. S. Straw and C. F. McKenney.

#### 1. Condition of Records.

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

- a. On several days, the day letter was entered in the sounding record in lead pencil, not in color, and the use of lower case and capital letters for day letters was not consistent.
- b. Seconds in meters were not given on the smooth sheet for the triangulation reference station. They have been added in the office.

The Descriptive Report satisfactorily covers the essential items.

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

The plan and character of development are in accordance with the instructions for the project, except that a shoal in latitude 29° 25.8', longitude 91°41.2' was not developed. Several split lines should have been run in this general vicinity to satisfactorily develop this area and the shoal indication about a mile to the southward.

#### 3. Shoreline and Signals.

The shoreline originates with plane table survey T-6325 (1935).

The signals are from T=6325 (1935). Temporary signals in the water areas were located by sextant cuts recorded in the sounding records.

#### 4. Sounding Line Crossings.

The sounding line crossings are satisfactory, the depths generally agreeing within 1 foot or less.

#### 5. Depth Curves.

Within the area surveyed, the usual depth curves can be satisfactorily drawn. There are many shell reefs with 1 foot or less of water over them. Their outline is shown on the sheet by a dashed black line and the notes pertaining to them were taken from the boat sheets and the sounding records.

#### 6. Junction with Contemporary Surveys.

The junctions with H-5859 (1935) on the north, with H-5790 (1934-5) on the east, with H-5824 (1935) and H-5825 (1935) to the southeast and with H-5837 (1935) to the southwest are satisfactory.

The junction with H-5953 (1935) to the south will be considered in the review of that survey.

#### 7. Comparison with Prior Surveys.

H-658 (1858), H-681 (1859), H-682 (1859), H-1831 (1888-89), H-1933 (1889).

These surveys are on a scale of 1:20,000, except H-1831 (1888-89), which is on a scale of 1:80,000. A general comparison with the present survey shows that the area is very changeable. Only a few of the more prominent features (shoals, reefs and deeps) of the above surveys can be definitely identified on the present survey. The only section where radical changes have not taken place is in Bayou Sale Bay, northward of Point Chevreuil, where only a slight shoaling has occurred. The extent of the changes may be seen from the following:

Point Chevreuil has receded to the eastward about 1 mile.

Rabbit Island has less than one-quarter of its former area.

Little Rabbit Island (charted from T-632 of 1856) has entirely disappeared. H-681 (1859) shows depths of 5 to 7 feet in the locality and the present survey shows 3 to 4 feet.

Bird Key also has been washed away, the present survey showing 2 to 3 feet of water in its former location.

The present survey has many more reefs awash or nearly awash than shown on the above surveys and a few of the shoals on the earlier surveys have changed in position or entirely disappeared. It would ESEXESE serve no useful cartographic purpose to list these changes in detail. Because of the changeable nature of this area, the lapse of time since the surveys weremade and the closer development on the present survey, H-5852 (1935) should supersede the above surveys for future charting.

## 8. Comparison with Chart 199 (New Print dated Sept. 18, 1935).

#### a. Hydrography.

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

#### b. Aids to Navigation.

The charted aids to navigation are in agreement with the positions given on the survey. It is to be noted, however, that "Southwest Reef L. H. 1933" charted as a landmark in latitude 29°23.5°, longitude 91°30.25°, is no longer maintained as a light.

#### 9. Field Plotting.

The field plotting was satisfactory.

#### 10. Additional Field Work Recommended.

The survey in general is satisfactory but additional work in the vicinity of the shoal indications noted in par. 2 is desirable.

#### 11. Superseding Old Surveys.

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

H-658 (1858) in part H-681 (1859) " " H-682 (1859) " " H-1831 (1888-89) " " H-1933 (1889) " "

12. Reviewed by - R. J. Christman, April 20, 1936.

Inspected by - G. Risegari, May 28, 1936.

Examined and approved:

6. H. Freen.

C. K. Green,

Chief, Section of Field Records.

Chief, Division of Charts.

Chief. Section of Field Work.

Chief, Division of H. & T.

Applied to Chart 1050 May 1937

Applied to Chart 1051 Aug 1937