

5401

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State: Louisiana

DESCRIPTIVE REPORT

Photo
Topographic } Sheet No. 5401
~~Hydrographic~~

LOCALITY

Mississippi River Delta

~~Bay Jaque to Grand Bay~~

Fort St. Philip to Grand Pass

1934²

CHIEF OF PARTY

M. H. Reese, Jr. H. & G. Engr.

U. S. GOVERNMENT PRINTING OFFICE: 1923

5401

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

13

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. 42

REGISTER NO. 5401 5401

State Louisiana

General locality Mississippi River Delta

Locality Fort St. Philip to Grand Pass
~~Bay Jaque to Grand Bay~~

Scale 1:24,000 Date of ~~survey~~ photographs December 2, 19 32

~~Vessel~~ Air Photo Compilation Party No. 24, New Orleans, La.

Chief of party M. H. Reese

Surveyed by See data sheet in the descriptive report.

Inked by H. F. Allen and S. S. Gill

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

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

Instructions dated November 7, 19 33

Remarks: Compiled on scale of 1:24,000 and enlarged and printed on scale of 1:20,000 by Photo Lithography.

Applied to Ch. 1277 - May 1935 - J.H. Bumble

-- NOTES ON COMPILATION --

SHEET NO. 5401

FIELD NO. 42

PHOTOS, NOS.	DATE OF PHOTOGRAPHS	TIME
814 - 824	12/2/32	10:31 to 10:36 A.M.
1054 - 1064	12/2/32	8:49 to 8:54 A.M.

DATA	BY	DATE
PROJECTION BY	<u><i>E. P. Hernandez, Jr.</i></u> E. P. Hernandez, Jr.	<u>6/11/34</u>
PROJECTION CHECKED BY	<u><i>A. A. Voss</i></u> A. A. Voss	<u>6/11/34</u>
CONTROL PLOTTED BY	<u><i>F. A. Donadieu</i></u> F. A. Donadieu	<u>6/16/34</u>
CONTROL CHECKED BY	<u><i>E. P. Hernandez, Jr.</i></u> E. P. Hernandez, Jr.	<u>6/19/34</u>
RADIAL LINE PLOT BY	<u><i>E. P. Hernandez, Jr.</i></u> E. P. Hernandez, Jr.	<u>6/24-28/34</u>
RADIAL LINE PLOT CHECKED BY	<u><i>S. S. Gill</i></u> S. S. Gill	<u>7/4/34</u>
DRAFTING OF PHOTOGRAPHS BY	<u><i>H. F. Allen & S. S. Gill</i></u> H. F. Allen & S. S. Gill	<u>7/5-20/34</u>
PASTING OF NAMES BY	<u><i>S. S. Gill</i></u> S. S. Gill <i>mtz</i>	<u>7/23/34</u>
REVIEW OF COMPILATION BY	<u><i>E. P. Hernandez, Jr.</i></u> E. P. Hernandez, Jr.	<u>7/24/34</u>

AREA OF DETAIL INKED-- 84.34 square miles.

LENGTH OF SHORELINE-- 137.9 miles (more than 100 meters from nearest shore).

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET NO. 5401,

FIELD NO. 42

GENERAL INFORMATION:

Instructions dated November 7, 1933.

The information used in the compilation of this sheet was obtained from notes and sketches on the field photographs and from members of the field inspection party.

The land area of this sheet consists of cultivated land along the west bank of the Mississippi River. The remainder of the sheet consists of low marsh lands with numerous islands, lakes, and bayous. There are numerous trees growing along the bayous. Because of the irregularity of the coast line and of the many small islands, the statistics as to length of shoreline and area of this sheet are only approximate.

The tide in this area is approximately two feet. Due to the small scale of photographs, its effect was neglected in determining the shoreline.

Along the east bank of the Mississippi River, south of Fort St. Philip, the levee is small and is not kept in the best of condition. There are many breaks in it that have not been repaired. However, it is shown as a continuous levee on this sheet.

This sheet was compiled from photographs taken by the U. S. Army Air Corps, five lens, T-3A Camera, No. 32-3. Photograph numbers 1054-1064 (east flight) approximately parallel with Longitude 89° 20' and 814-824 (west flight) approximately parallel with Longitude 89° 27'.

CONTROL:

(A) Sources.

The following sources of control were used in the compilation of this sheet:

- (a) Triangulation by G. C. Mattison, 1921.
- (b) Triangulation by F. S. Borden, 1922.

The geographic positions established by G. C. Mattison (1921) and F. S. Borden (1922) were corrected to the North American 1927 Datum. Using first order triangulation stations De Suite 1927-1934, Bayou Cook 1883-1934, Biyou 1922-1934, and Burns 1922-1934, a conversion factor was obtained by which the geographic positions of these stations on the North American Datum were corrected to the North American 1927 Datum. The correction was found to be -2.9 in forward Latitude, +2.9 in back latitude, -16.4 in back longitude and +16.4 in forward longitude.

No control stations established by other organizations were used in the compilation of this sheet.

(B) Errors.

The control used in the compilation of this sheet was found adequate for the radial line plot.

(C) Discrepancies.

No discrepancies in the geographic positions of control stations were found and no control stations established by any other organizations were used in the compilation of this sheet.

COMPILATION:

(A) Method.

The usual five lens radial line method of plotting was used in the compilation of this sheet.

(B) Adjustment of Plot.

The photographs in these strips appear to be free from excessive tilt and scale fluctuations and the radial line plot required no unusual adjustments.

(C) Interpretation.

The graphic symbols used in the drafting of this sheet are standard and approved by the Board of Surveys and Maps (1932). The symbol used thus (§) to denote mangrove brush. All bayous and larger streams are shown with the double full line and those of lesser importance with single full line.

Along the coast line there is a continual deposit of silt forming sand bars. The exact shape and boundaries of these, being changeable, are shown by broken lines.

What were once bayous and small streams but are now only sloughs, are shown with single broken lines.

(D) Information From Other Sources.

There was no information taken from any sources other than those mentioned above.

(E) Conflicting Names.

There are no names on this sheet conflicting with names shown on the U. S. C. & G. S. chart of this area.

See review at the back of this report

COMPARISON WITH OTHER SURVEYS:

The junctions with adjoining sheets to the North (5328), East (5405), South (5402), West (5319), are all satisfactory.

By comparison with the coast line of this area as compiled by U. S. Coast and Geodetic Survey from aerial surveys of 1922 made by the Naval Air Service, it can be seen that the coast line extends further out into the Gulf of Mexico. This is especially noted at Latitude 29°17' to 29°20' and Longitude 89°17' where the coast line has been built up approximately a half mile further into the Gulf. The detail for the remainder of this sheet agrees in every detail with the 1922 survey. Many of the lakes and shore lines of bayous and streams coincide on the two surveys.

LANDMARKS:

The list of landmarks as recommended by the Field Inspection party is submitted on Form 567 for the area covered by this sheet, *all former existing landmarks not covered in this report are to be*

RECOMMENDATION FOR FURTHER SURVEYS: *removed from the sheet*

The compilation of this sheet is believed to have a probable error of 8 meters in well defined detail and 15 meters for other detail of lesser importance.

To the best of my knowledge this sheet is complete in all detail of importance for charting purposes, within the accuracy stated above, and no additional surveys are required.

S. S. Gill
Submitted by: S. S. Gill,
Draftsman.

M. H. Reese
Approved by: M. H. Reese,
Chief of Party.

REVIEW OF PHOTO COMPILATION SHEET NO. 5401

Sheet (Para. 20) Forwarded with Sheet.

Chief of Party M. H. Reese

Compiled by S. S. Gill

Project Louisiana Air Photo Compilation
Party No. 24

Instructions dated Nov. 7, 1933

1. The survey and preparation for its transfer to the requirements of the topographic manual. (Para. 20 and 21, 22, 23, 24, 25, 26, 27, 28 and 29.) Note: Par. 8 not applicable to this party.
2. The character and scope of the compilation satisfy the instructions and the "Notes on the Compilation of Plans from Five Line Aerial Photographs".
3. The content and adjustment of the radial plot were adequate. (Para. 22, 23.)
4. There is sufficient content on maps from other sources that were transmitted by the field party for their application to the sheets. (Para. 23.) None submitted.
5. High water lines on survey and mangrove coast is clear and adequate for sheet compilation. (Para. 23a, 24, 25.)
6. The representation of low water lines, reefs, coral reefs and rocks, and lagoons pertaining to them is satisfactory. (Para. 24, 25, 26, 27, 28, 29.) See Par. C, Page 3 of Des. Report.
7. Important details shown on previous surveys and on the chart have been compared with this sheet and a statement has been entered in the report regarding the removal from the chart or change in position of important details such as rocks, lights, towers, prominent objects, bridges, docks, and structures along the water front. No changes in such details have been noted on this sheet. See page 4 and review at the back of this report.
8. The span, form and clearance of bridges are shown. (Para. 23a.)
9. The data furnished by the field inspection is adequate.
No. See review at the back of this report.

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.

- 10. The descriptive report covers all details listed in the Manual, in far as they apply to this survey. (Pars. 24, 25 and 26.)
- 11. The descriptive report also contains all additional information required in photo topography as prescribed in the instructions and in the "Notes on the compilation of Planimeters like Maps from First Lens Aerial Photographs".
- 12. The descriptions of reconnaissance stations and references to charts that were accomplished on Form 224, and reading of positions sheets. (Pars. 28, 29, and 30) None submitted on Form 524
- 13. A list of landmarks for charts was furnished on Form 227 and reading of positions sheets. (Pars. 32, 33, 34.)
See Page 4, page 5, and the following review report
- 14. The geographic dates of the chart is North American 1927 and the reference station is correctly stated. (Pars. 35) *unadjusted*
- 15. Junction with contemporary surveys are adequate.
- 16. Geographic names are shown on the chart and are covered by the Descriptive Reports (Pars. 36, 37a) *See review at back*
- 17. The quality of the drafting is good. (Pars. 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54.)

18. No additional surveying is recommended.

19. Remarks:

20. Final and approved:

M. H. Reese
 M. H. Reese,
 Chief of Party

21. Remarks after review in office:

Reviewed in office by: *See review at back of this report*
B.G. Jones

Final and approved: *C.F. Green*
 Chief, Section of Field Records
L.D. [Signature]
 Chief, Section of Charts

F. [Signature]
 Chief, Section of Field Work
[Signature]
 Chief, Section of
 Topography and Surveying

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

New Orleans, Louisiana

July 23, 1934

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

M. H. Reese

Chief of Party.

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED
	LATITUDE		LONGITUDE		DATUM		
	°	'	°	'			
Jump Light	29	16	(1283.4) 564.2	89	20	(15.0) 1604.8	1927 AirPhoto No. 1272 ✓
Bolivar Point Light	29	20	(416.4) 1430.9	89	28	(97.0) 1521.8	Triangulation 1922 " ✓
Bayou Grand Laird Light	29	20	(1136.9) 710.4	89	28	(256.9) 1361.9	" " 1922 " ✓
Fort St. Philip Main Range Tower	29	21	(132.0) 1715.3	89	27	(338.7) 1279.6	" " 1904 " ✓
St. Philip's Bend Light	29	22	(1827.5) 19.8	89	27	(1538.3) 80.0	" " 1922 " ✓
New Canal Light	29	20	(464.4) 1382.9	89	24	(1414.6) 204.2	" " " ✓
North Base 1922	29	15	131.6	89	18	1026.	" " This position is close to Wilders Flats Light. Recovery note states light is 9 meters from station, but direction not given.
Fort Jackson Light <i>(old light structure)</i>	29	21	923.2 1057 <i>old light - 923.2</i> <i>132.5</i> <i>new light 1055.7</i>	89	26	1385 <i>1385</i>	Position given above is 1922 triangulation position. Light was moved 145 yds. north in 1928. (132.5 m)
See review at back for discussion of Landmarks.							
<i>Sp. g. sealing and copying of positions checked. Above positions on 1927 N.A. Datum.</i>							

A list of objects carefully selected because of their value as landmarks as determined from seaward together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) off-shore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaves and like objects are not sufficiently permanent to chart.

REVIEW OF AIR PHOTO COMPILATION 5401 (1934)

Names:

Names shown on this compilation agree with chart 1272. A number of new names have been accepted as submitted by the compiler pending Mr. Bacon's decision. All new names submitted by the compiler agree with the G. S. quadrangle maps and were probably taken from those maps. The term "New Names" refers to names not on the present U. S. Coast and Geodetic Survey charts. Page 3 of the report gives no actual discussion of names and apparently the local use of names shown has not been determined by inquiry in the field.

Control:

Control for this compilation was adequate. The accuracy of location of 8 to 15 meters given on page 4 is high for work on this scale. A better estimate is 10 to 20 meters, assuming careful plotting with the control available.

Landmarks:

The position of Wilder's flat light given in the landmark list is incorrect. The position given is that of Δ North Base 1922. Reese's Recovery Note says a light 30 feet high has been built 9 meters from the Δ station but does not give an azimuth. The light is therefore not shown on the compilation.

The new Fort Jackson light is not shown on the compilation. No position was furnished. The position given on the compilation and in the landmark list was a 1922 Δ position. The light was moved 140 meters in 1928. Reese was notified of this error. The old structure is shown on the compilation.

Comparison with Other Surveys:

For comparison with the last previous surveys T-4030 and T-4047 (1922) see page 4 of the report. Reese was furnished bromide copies of T-4030 and T-4047 made to the scale of his compilations so that a detailed comparison could be made.

B.G. Jones

(2)

T 5401

Remarks

Decisions

	Remarks	Decisions
1		
2		
3		
4	C. Recommend the C. & G. S. spelling <i>Carancro on old U.S.G. Quad</i>	<u>Carencro Bay</u> see sheet T-5401
5		
6		
7		
8		
9	C. New name. OK.	<u>Benneys Bay</u>
10	C. Baptiste Collette is the proper Fr. spelling but in translating into English, it would probably be Batiste Collet [Would retain Fr. spelling]	
11	C. New Name. OK	<u>Alexis Bay</u>
12	C. New Name. OK	<u>Main Pass</u>
13	C. New name. OK	<u>Kimbel Pass</u>
14	C. New name. OK.	<u>Lookout Pass</u>
15	C. New name. OK	<u>Denesse Pass</u>
16	C. New name. Spelling does not look right see T 5402	<u>Emeline Pass</u>
17	C. New name. OK.	<u>Buras Bayou</u>
18	C. New name. OK	<u>Long Island Bayou</u>
19		
20	K. Location 29°22.5' 89°28' OK.	
21	29°15.8' 89°28'	
22	29°15.4' - 89°18.7'	
23	K. 29°21.8' 89°23.5' Application of name uncertain. May refer to the lake. If so, should be Old Swamp Lake	
24	K. 29°21.8' 89°23.2' Refers to a pass or bayou east of Old Swamp. Too small a feature to be called "Grand." Reject	
25	K. Bay Carancro is too much like Carancro Bay, line 4. In order to avoid confusion would use the U.S. Engr's name, Bay Carrion Crow	Duplication of 17 & 1 29°24' 89°24'
26	The names listed under C. are from advance sheets of	
27	U.S.G.S. field surveys of 1935	
M 234		

T5401

Remarks

Decisions

	Remarks	Decisions
1	Addition of "Bay" is recommended.	
2		
3	Jague, Fr. for short coat. "Jacomine" is not found in Fr. Dict. Would not use name unless sustained by local usage.	
4	See Jague above. Tortillian looks like misspelling of Tortillon, French for "cap"	<u>Bayou Tortillon</u>
5	Bayou Plaquemine added and Fort Bayou deleted from information on Sand Office Surveys	
6		
7		
8	Liard is Fr. for "liar" Laird is not found in Fr. Laird should be used only if proper name & local usage	
9	See Liard above. Liard on old U.S. & S. Forts Quad.	
10		
11	Dunbar looks like the most logical <small>Dun Barr on old US & S. Quad</small>	
12	Would use name.	<u>Bayou Little Channel</u>
13	New name, Would use	<u>Colum-Bel Cut</u>
14	Carrion Crow is frequently duplicated. Cirok not found in Fr. Use Cirok if local name	<u>Bayou Cirok</u>
15	Yellow Cotton Bay not found on other surveys. Use only if sanctioned by local usage.	<u>Yellow Cotton Bay</u>
16		
17	Bay Carancro apparently a corruption of Carrion Crow. Would use Carrion Crow. To avoid conflict with Carancro Bay just across the river	<u>Bay Carrion Crow</u>
18	New names. Would accept	<u>Hospital Bay</u>
19	" " " "	<u>Bayou Lelet</u>
20	" " " "	<u>Cochrans Canal</u>
21	" " " "	<u>Jurjevich Canal</u>
22	" " " "	<u>Valer Canal</u>
23		<u>Fresh Water Bayou</u>
24		
25		
26	New name OK.	<u>Porpoise Bayou</u>
27	OK.	

GEOGRAPHIC NAMES

Survey No. **T5401**

U.S.G.S. SW. Forts & SE Forts, 1935
Advance sheets

①
Underlined names
approved Feb. 1936, H.D.
On Chart
No. 1272
On previous survey
No. 445
On U.S. quadrangle
CSE & SW Maps
From local
information
On local Maps
P. O. Guide or Map
Rand McNally Atlas
U. S. Light List
K US Engrs

Name on Survey	A	B	D	E	F	G	H	K US Engrs
Chi Charas Bay	✓	✓	Chi Charas Bay		Chichayras	Bay =	Chi Charas	1
<u>Bay Denesse</u>	✓		Same				Same	2
<u>Bay Jaque (Fr. Short Coast)</u>	✓		Bay Jacomine	Bay Jagues La. State Engr		Bayou Jagues - US & B. de Liscou	Bay Jaque	3
<u>Bayou Jaque</u>	✓		Bayou Tortillian				Bayou Jaque	4
Bayou Coquette	✓		Bayou Coquette					4
<u>Fort St Philip</u>	✓	✓	✓				✓	5
Bayou Plaquemines	✓	✓			Land Office		✓	6
Fort Bayou	✓	✓	added				✓	6
<u>Bolivar Pt</u>	✓	✓	✓				✓	7
<u>Bayou Grand Liard</u>	✓	✓	Bayou Grand de Laird				Bayou Grand Liard	8
<u>Bayou Petit Liard</u>	✓	✓	Not On				Same, different location	9
<u>Fort Jackson</u>	✓	✓	✓				✓	10
<u>Bayou Dum Barr</u>	✓	✓	Bayou Dunbar				Same as C.S.	11
	None	None on Top Sheet	Bayou Little Channel				None	12
	None		Colum-Bel Cut				None	13
<u>Grand Bayou Carrion Crow</u>	✓	✓	Bayou Citek	See G.N.S.			Same as C.T.G.S.	14
<u>Cotton Bay</u>	✓	✓	Yellow Cotton Bay				Same as C.T.G.S.	15
<u>Boothville</u>	✓	✓	✓				✓	16
	None	✓	Bay Carencrau	29°19'			Bay Carrion Crow	17
H	None	✓	Hospital Bay	29°24'			✓	18
	✓		Bayou Lelet					19
	✓		Cochrans Canal					20
	✓		Jurjevich Canal					21
	✓		Valer Canal					22
<u>Freshwater Bayou</u>	✓	Fresh Water Bayou					Fresh Water Bayou	23
<u>Spanish Bay</u>	✓	✓					✓	24
<u>Olga</u>	✓	✓	✓				✓	25
<u>Porpoise Bayou</u>	✓		Porpoise Bayou					26
<u>Spanish Pass</u>	✓	✓	Spanish Bayou				Same as C.T.G.S.	27

GEOGRAPHIC NAMES

Survey No. **T5401**
 USGS, SE Forts

2
 Underlined names approved Feb 1936 HB
 On Chart No. 1272

On previous survey No. **1272**
 On U. S. quadrangle maps
 From local information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

U.S. Engrs

Name on Survey	A	B	C	D	E	F	G	H	K	
<u>Mississippi River</u>	✓	✓	✓				✓		✓	1
<u>Red Pass</u>	✓	✓	✓						✓	2
<u>Grand Bay</u>	✓	✓	✓						✓	3
Carencro Bay ^{29°24.7} _{89°21.9}	✓		Carencro Bay						Same as C+G.S.	4
<u>Venice</u>	✓	✓	✓						✓	5
<u>The Jump</u>	✓	✓	✓						✓	6
<u>Grand Pass</u>	✓	✓	✓						✓	7
<u>Tiger Pass</u>	✓	✓	✓						✓	8
	✓		Bennoys Bay	✓						9
<u>Baptista Collette Bayou</u>	✓		Baptista Collette Bayou	✓					Same as C+G.S.	10
<u>Alex</u>	✓		Alexis Bay	✓						11
	✓		Main Pass	✓						12
	✓		Kimbel Pass	✓						13
	✓		Lookout Pass	✓						14
	✓		Denesse Pass	✓						15
<u>Emeline Pass (T5402)</u>	✓		Emilein Pass	✓						16
	✓		Buras Bayou	✓						17
	✓		Long Island Bayou	✓						18
<u>Jack Bay</u>	✓								Jack Bay	19
Rattlesnake Bayou	Out: To avoid duplication			<u>Blackjack Bayou</u>	(La State Engrs Report to USGS)				Rattlesnake Bayou	20
<u>Breton Sound</u>	✓	✓	✓					✓	✓	21
<u>Wilder Flats</u>	✓	✓								22
<u>Old Stump</u>	✓								Old Stump	23
									Grand Pass	24
			Bay	Duplication of Carencro Bay 17. page 1					Bay Carion Crow	25
<u>Yaratich Bend</u>	✓								✓	26
<u>Yaratich Bayou</u>	✓		✓							26
<u>Romere Pass</u>	✓	See T5405	✓							27