SUPPLEMENTAL T

U. S. COAST & GEODETIC SURVE LIBRARY AND ARCHIVES

JUL 23 .934

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY R. S. Patton , Director

State: Louisiana

DESCRIPTIVE REPORT Topographic | T-5432

Hydroeknyne

Sheet No.

T-5433 Scofield Bayou

1934

CHIEF OF PARTY

Reese, Jr., H & G. Engr.

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.

rield No. 32
REGISTER NO. T-5419 5432 REGISTER NO. T-5419 5432 T 5430 5433 State Louisiana. Gulf Coast General locality Grand Bayou T 5434 - Bastian Bay T 5450 - Scofield Bayou
State
Gulf Coast Gulf Gulf Coast G
Locality Bayou Chalaud to Dry Cypress Bayou
Photographs: 12/21/32 Scale 1:24,000 Date of survey. 19
vessex Air Photo Compilation Party No. 24, New Orleans, La.
Chief of party M. H. Reese.
Surveyed by See data sheet in descriptive report.
Inked by F. A. Donadieu.
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated November 7, 19 33/
Remarks: Compiled on a scale of 1:24,000 and enlarged and
printed on scale of 1:20,000 by Photo-Lithography.
Completion was two longs for
frunting and had to be made into
his wheels
7/5 /7 / A . A

- NOTES ON COMPILATION -

	SHEET NO. T. 1819	→ 75433
	FIELD NO. 32	
PHOTOS, NO.	DATE OF PHOTOGRAPHS	TIME
501-509	12/21/32	10:00 to 10:04 A.
697-707	12/21/32	9:41 to 9:45 A. M
	ВУ	DATE
PROJECTION BY E.	P. Hernandez	4/5/34
PROJECTION CHECKED	BY E. L. Fitch	4/5/34
CONTROL PLOTTED BY_		4/9/34
CONTROL CHECKED BY_		4/9/34
RADIAL LINE PLOT BY	H. C. Smith	4/10-12/34
RADIAL LINE PLOT CH	ECKED BY F. A. Donadieu	4/25/34
DRAFTING OF PHOTOGR	APHS BY F. A. Donadieu	4/25 to 5/12/34
PASTING OF NAMES BY	F. A. Donadieu	6/12/34
REVIEW OF COMPILATI	on by F. A. Donadieu	5/14/34

AREA OF DETAIL INKED-- 86.6 sq. Statute Miles.

LENGTH OF SHORELINE--(more than 100 meters from nearest opposite shore) 183.3 Statute Miles.

COMPILER'S REPORT

. FOR

PHOTO TOPOGRAPHIC SHEET, FIELD NO. 32

GENERAL INFORMATION:

Instructions dated November 7, 1933.

The information used in the compilation of this sheet has been obtained from the reports and data of Lieutenant T. B. Reed, engaged in combined operations work in this vicinity at the time of the compilation, from the notes and sketches on the field photographs, and from members of the field inspection party in questionable areas.

The shore line along the Gulf Coast was taken from the field photographs, on which the field inspection party had sketched the high water line.

Normal tide variations, except along the Gulf Coast, are very slight and its effect was neglected because of the small scale of the photographs-1:24,000.

The shore lines of the bays, bayous and lakes in this area vary due to the South winds backing up the water into them and North winds forcing it out.

The erosion along the Gulf Coast is great in some sections, and

the shape and position of the shoreline varies rapidly.

The land area of this sheet consists principally of low marsh ground and only a small portion, along the Mississippi River, is under cultivation.

This sheet was compiled from photographs taken by the U. S. Army Air Corps' five lens T-3A Camera, No. 32-3, photograph numbers 501-509 (West Flight) approximately parallel with Longttude 89041:, and 697-707 (East Flight) approximately parallel with Longitude 89 34.

CONTROL:

(A) Sources:

(a) Triangulation by Lieutenant Commander G. C. Mattison, 19<u>22</u>.

(SEE ATTACHED MEMORANDUM)

(b) Triangulation by H. W. Hemple, 1927.
(6) Triangulation by Lieutenant C. I. Aslakson, 1934.
(d) Triangulation by Lieutenant T. B. Reed, 1934.

The geographic positions previous to the 1927 Datum were recomputed to the North American 1927 Datum. Field Computations

Recent ties with first order triangulation indicate that the errors in this area are very small and the difference between the unadjusted and the final adjusted positions would be unplottable at the small scale of the compilation-1:24,000.

(B) Errors:

The Geographic Position of Scofield Bayou Light, as determined by Lieutenant Commander G. C. Mattison-1922 and converted to the North American 1927 Datum, would not hold with the radial line plot and the radial line plot location was used and shown with the conventional symbol (a circle wind millimeters in diameter). The light beacon may have been moved since it was located in 1922 because of the changing of the shore-line. The two positions follow:

Scofield Bayou	Radial Line Plot Location	Geographic Position
Light	Latitude 29°14: (398.7)	Latitude 29014, (622.6)
	Longitude 89°33' (512.3)	Longitude 89°33 (587.8)

(C) Discrepancies:

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

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 the two flights covering the area shown by this sheet are free from excessive tilt and scale fluctuations and required no unusual adjustments.

(C) Interpretation:

To denote Lighted Beacons (other than those used as controls) which were determined by radial line intersections, a circle two millimeters in diameter was used.

To denote mangle-brush three or four feet high, the symbol used was— $(\ \ \ \)$; to denote reeds, the symbol used was $(\ \ \)$; otherwise only the conventional graphic symbols were used, as approved by the Board of Surveys and Maps (1932).

No great difficulty was experienced in interpreting photographic details except in the area between Longitude 89°38' and Longitude 89°40', due to the dimness of "C" prints on flight 501 to 509, and because of the gradual merging of mud flats and shallow water. To determine whether detail was water or mud flat, this had to be traced off "E" prints as reflection of the sun on the water in this area showed these small details very clearly. Due to lack of radial points on the extreme 2/3 of "E" prints, the location of the above mentioned detail had to be determined by adjusting photographs to distinct shore lines previously traced. Because of this there may be small errors in minor features; however, no major features are affected, and this area was traced with the greatest of care.

The large canals, bayous and good roads are indicated by double full lines, roads of less importance are indicated by double Broken lines, and small bayous and canals by single solid lines.

In most cases the classification of features had to be determined by a close examination of the photographs except where labeled on the field prints.

(D) Information From Other Sources:

There was no information derived from sources other than that mentioned in previous paragraphs.

(E) Conflicting Names:

There are no conflicting names in this area. All the names used were taken from U. S. Coast and Geodetic Survey Charts Nos. 1272 and 196, and Air Photo Topographic Sheet No. 4030 and from reports of the field inspection party. The names shown are in current usage by the inhabitants of this area.

COMPARISON WITH OTHER SURVEYS:

The junctions with adjoining sheets to the North and West, T-5318 and T-5311, respectively, are satisfactory.

The details on this sheet check well with Chart No. 1272 and fairly well with Chart No. 196 inland and west to Longitude 89°38'. On Chart No. 196 the area west of Longitude 89°38' and North of Latitude 29°19', is shown as indefinite and very few details are shown in that area.

In comparing the matching of this sheet with Air Photo Topo Sheet No. 4030 compiled on 1:40,000 scale in 1922, it is noted that the bromide print furnished this office, which was enlarged to 1:24,000 scale in order to match the scale of this sheet, is distorted to a large degree. This is proven by the fact that there is a curve in the meridian lines. The maximum difference, however, of shore-lines and features, except along the Gulf Coast and East bank of the Mississippi River, is approximately twenty meters, and this is attributed to the above mentioned enlargement and distortion. The Gulf Coast shore-line, which is subject to constant change, shows the greatest difference; the East end of Pelican Island having built out considerably while an inlet has cut through the western part of this island. Also at the junctions of these sheets and at Longitude 89°31'45" along the coast quite large differences in location of shore-line are noted. The East bank of the Mississippi River is approximately 70 meters North of the position shown on Topo sheet No. 4030. These are the major differences, but, taking into consideration the difference in scale of the two compilations and the elapsed time between the compilations (12 Years), it is thought that as a whole the comparisons are very favorable.

A section of Topo Sheet No. 4030 will be enclosed with this compilation for office review.

LANDMARKS:

The list of land marks as recommended by the field inspection party is submitted on form No. 567 for the area covered by this project.

RECOMMENDATIONS FOR FURTHER SURVEYS:

Except as noted under Compilation "C" the compilation of this sheet is believed to have a probable error of five meters in well defined detail of importance for plotting and ten meters for other data. Some small bayous and roads were exaggerated in order to keep the two lines distinct.

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

Submitted by: F. A. Donadieu, Draftsman.

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

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

New Orleans.	Louisiana	
•		
May	15	 193 4

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. R	688	· -
				· · ·					Chief of Party.
				POS	ITION				
DESCRIPTION		LATI	TUDE		LONG	ITUDE		METHOD OF DETER- MINATION	CHARTS AFFECTED
	0	ı	D. M. METERS	0	1,	D. P. METERS	DATUM	MINATION	
From photos		•	(398.7)			(512.3)	N. A.	Air.	U.S.C.&G.S.Charts
Beacon taken in 1932	29	14	1448.6	89	33	1108.1	1927	Photo	No. 196,1272 - 1273
Photos taken			(881.1)		٠	(853.7)			71433
Old Beacon 1932	29	14	966.2	Ø 9	33	766.6	"	Ħ	"1275/75433
			(410.7)	ļ		(406.0)		Triangu	
Grand Bayou Lt. 1934	29	<u> 17</u>	1436.6	89	40	1213.4	Ħ	lation.	196 12731 T.5432
Red Slatted Day mark & South Light			(978.5)			(272.8)			·
Entrance Bayou Cook 1934	29	19	868.9	89	38	1346.2	TI:	11	196 127 3x T 543x
Light North Entrance			(854.1)	2		(438.3)		;	
Bayou Cook 1934	29	21	<u> </u>	89	37	1180.0	111	n.	196 M-73 + T5437
From Photos			(905.6)	1		(741.9)	/ ·	Air	
Neptune Lt. Bn. 1932	29	21	941.7	89	30	876.6	"	Photo	1272
_		• •	(1132.4	1		(932.1)		Triangu	/_
Alberta Lt. 1934	29	22	714.9		. 34	686.1	11!	lation	1271-1273-16433
Bolivar Pt. Lt.	29	20	(417.4) 1429.9	89		(97.0) 1521.6	13.	ti	1272)
Bayou Grand Liard Lt.	29	20	(1137.9) 709.4	89	28	(256.9) 1361.8	11:	n) 1272)
From 1932	-		(932.7)	03	40	(167.3)		Air	1616
Stack Photos	29	21	914.6	Ãq.	31	1451.2	ń.	Photo	1272 /
110000			e review				·	111000	1010
*Triangulation na	me i	s Gr	and Bayou	L:	ight,	Aslakson	1, 1934.	Light	List
gives this as Bastia	n Ba	y Li	ht.						
East Spire is pl	.otte	d on	the comp	ile	ation	but was	marked	out on 1	his
list by the Field Pa	rty.	No	reason v	as	giver	4.		B. G.	Jones.

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 indentification. 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, flagstaffs and like objects are not sufficiently permanent to chart. from the photo compelation

The difference in location of the high water line is due to the considerable changes that have taken place between the date the photographs were taken, namely, December 21, 1932, and the time of the plane table survey, 1934, and from the interpretation of the high water line.

In that area at approximately latitude 29°16' and longitude 89°38', the edge of the marsh grass was interpreted as the high water line by the field party, but in reality this is the storm high water line according to notes of the field inspection party.

That area approximately at latitude 29°14' and longitude 89°32' is, in all probability, correct as shown on the photo sheet as the same configuration exists on 1922 survey.

All other differences in this sheet other than those mentioned above are due to changes brought about by erosion caused by tidal conditions since the date of the photographs.

Written by M H Reese but must ingred B. 94.

Comparison with other surveys: The outside coastline in the area of these compilations is shown also on plane table surveys T-6078 and T-6079 (1934). The plane table surveys, done in connection with the Hydrography, show only H. W. line and hydrographic signals. There are considerable differences in location of the M.H.W. line between the compilation and the plane table surveys. Attached at the back of this report are photostat copies of the plane table surveys on which Reese has added his compiled H. W. line in red to illustrate the differences. Reese's report, after study of these differences, is on the preceding page. He attributes the larger part of the differences to change since the date of the photographs.

Reese wrote to the office in regard to this difference in location and was advised that due to the constant changes in this coastline, it would not be necessary for him to transfer the H. W. line from the plane table surveys to his compilations. However, in going over the compilations in this office before printing it seemed advisable to show the latest available information. The outside H. W. line on the compilations has, therefore, been corrected to agree with the plane table surveys.

At the entrance to Schofield Bayou, the plane table shoreline was not carried to a junction with the compilation at the north side of Pelican I. The short beak has been joined in the office with a broken line.

The eastern section of compilation T-5433 was covered by air photo compilation T-4030 (1922), scale 1:40,000. For a comparison see page 4 of the preceding report.

The last preceding topographic survey of the remainder of this area is T-1648 (1883), scale 1:30,000. Comparison with T-1648 shows considerable changes on the outer coast and in the larger bays.

The compilations are adequate to supersede the sections of T-1648 and T-4030 which they cover.

Comparison with hydrographic surveys H-5493, H-5495, and H-5496 (1934), shows no conflicting information.

Names: The name Garden Bay, Lat. 29°20', Long. 89°44' was taken from H-5495. The report H-5495 states that this name is in local use.

Names are in agreement with charts 196 and 1272.

New names shown are reported as in current local use. See page 4 of the preceding report.

The name Cyprien Bay on this compilation and chart 1272 is Cypress Bay on the U.S.G.S. quadrangle. The name Bay Pomme D'or shown on the

compilation Lat. 29°19', Long. 89°33', is Bay Pompadour. The two names have been retained as shown by the compiler. New names will be referred to Mr. Bacon.

Landmarks: The list of landmarks submitted in the preceding report does not include the church spire at Lat. 29°21', Long. 89°31' shown on the compilation. Schofield Bayou light mentioned on Page 2 of the report is not listed by the light house service and is probably a private light. It is shown on this compilation as a light.

Control: There was sufficient control for this compilation by the accuracy of location given on Page 5 of the descriptive report is high for work on this scale. A better value would be an accuracy of location of 8 to 10 meters for intersected points and 10 to 20 meters for other detail.

B. G. Jones.

Title (Par. 56) Forwarded with sheet.

Chief of Party M. H. Reese

ı

, 5.

Compiled by F. A. Donadieu

Project Louisiana Air Photo CompilationInstructions dated Nov. 7, 1933.

Party No. 24.

- 1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 8; and 16, a, b, c, d, e, g and i.) 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 Planimetric Line Maps from Five Lens Aerial Photographs".
- 7. The control and adjustment of the radial plot were adequate. (Par. 12, 29.)
- There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.) None submitted.
- 5. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- 6. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) See Par. C, Page 3 of Des. Report.
- 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 detail such as rocks, lights, beacons, prominent objects, bridges, docks, and structures along the water front. No changes in such details have been noted on this sheet. See review for comparisons with other surveys.
- 8. The span, draw and clearance of bridges are shown. (Par. 16c.)
- 9. The data furnished by the Field Inspection is adequate.

NCTE: 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.

- The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
- M. 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 Planimetric Line Maps from Five Lens Aerial Photographs".
- The descriptions of recoverable stations and references to shore , 22. line were accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.)
- √13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.) See review at back
- The geographic datum of the sheet is North American 1927 and the reference station is correctly noted. (Par. 34.)
- Junctions with contemporary surveys are adequate.
- Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.) New names unbmitted by the combile house been notained purching Mr. Boson's decision on a birt unbmitted to him.

The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)

- No additional surveying is recommended.
- 19. Remarks:

Examined and approved:

Chief of Party

Remarks after review in office. See review report at back.

Reviewed in office by: 39. Jones

Examined and approved: C.K. Speen

Chief, Section of Field Records

Chief. Division of

Hydrography and Topography.

GEOGRAPHIC NAMES

Survey No	T-5432
Chart No	
Diagram No	

Date. <u>April 3,1935</u>

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

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

Under investigation. Q

all names approved to Sept 20, 1935 Harlow Bacon

Status .	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
•	DAY AUX PERE-	Bay au Fer (USGS 1	935 Survey)		
V	✓ MEVERS CANAL	ок			
	ADAMS BAY				·
	BASTIAN-BAYOU	Bayou Huertes (US,C,	5 <u>,</u> 1935 Survey	. authority, St	ate Engr)
	BASTIAN BAY				
	BASTIAN ISLAND				
_	BASTIAN PASS (east of	Bastian Island)			
	HALFMOON BAY				
	GARDEN BAY	,			
\	BAYOU COOK				
	BAYOU CHALAND		e		
	BAY CHALAND				
	CHALAND PASS	/			-
· .	BAYOU FEREN	Ferrand Bayou? (US	45 Survey	1935)	
* 1#	BAY JOE WISE	Ferrand Bay 48	0	Vi i	
	GRAND BAYOU	,			
	SHELL ISLAND BAY				
	SHELL ISLAND	Lanny I	F*		
-	GULF OF MEXICO				
	Bayou Courant "	US G5 1935	USGS, 1935		
-	Bay de Suite V	UNDERLINED " HL Flen_"			
,	Bayou la Chute Lake Robinson	1,),			
-	Pipe Bay				(M-436

GEOGRAPHIC NAMES

		aLU
Date. April	3.1935	

Survey No	
Chart No.	

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 Location by Field
•	ADAMS BAY	/		
•	MISSISSIPPI RIVER V			
	OSTRICA V	Con Sacanes	- U.S. 6-13	danseur
· .	BAYOU TORTILLION	TortoHon (Fr. cap	or head dr	(14
	BAY DENESSE	15.	1	,
	HALFMOON BAY			
	BURAS	/		
	NEPTUNE V	This name not on 45	GS, 1935 or l	SEngrs, 1935 mah.
	BAYOU FEREN	Ferrand Bayou? 1	SGS 1935)~	
	BAY CHERIE C. Chan	ged Sept 20, 1935		<u> </u>
<u>.</u>	BAYOU LONG			
	TRIUMPH *			
	BAY POMME D'OR	/		
<u></u>	BAYOU FONTANELLE			/
•	ENGLISH BAYOU	Relocated from US	GS 1935 ·	<i>f</i>
* *	BAYOU AUGUSTE	Meridian y 2000 0 0	7 /	/
	BAY JAGUIN	Bay Jacquin OK		
-	Bayou Jacquin			V5G5. 1935
	Bayou le Boon	/		71 fr
/: \	Mitchel Cut V			11 01
	Buras Drainage Dist	rich The Thinks		er 69
	Grand Bayon Pass	Chan nama) 9-1-38.		(

GEOGRAPHIC NAMES

Survey No. 1=2422	-
Chart No.	_

Date. April 3,1935

Diagram N	۱ö.	_	 	

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

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

SHEET

TWO

Under investigation. Q

Names added Sept 20,1935 H.Bacon

		<u> </u>			
Status	Name on Survey Bayou Cook	Name on Chart	New Names in local use	Names assigned by Field	Location
	CYPRIEN BAY	1			
	SHELL ISLAND BAY	/			
•	SCOFIELD BAY				
	SCOFIELD BAYOU	USGSY CYGS: do not	agree wh	ich branch	cernes
<u> </u>	SKIPJACK BAY	or ! or			
:.!	BAY JAQUE (21	Bayou Jacques (L	a State Engl	1936) Refer	ttusbyn
	DRY CYPRESS BAYOU	/ (0268 2	e cizivi		
	PELICAN ISLAND				
	BAY COQUETTE ✓				
<u>`</u>	Spade Bayou N			USG.S.1938	
	Drake Bay			11 4	
	Fasterling Canal			* •/	
· · · · · · · · · · · · · · · · · · ·	Bayou Cherie 1/			" "	
- 1 te	Bay Long			" "	·
	Bay Crapaud	(Krapo = Toad, French)		" "	
	Bayou Crapaud	V		" "	 _
	Little Pomme D'O		C+ 1 5)	11 11	
		(2) Cazezu Canal (La	i. Itate Engr	" "	
<u> </u>	Cognevich Canal	AFENDER TATES Underline to the D		/1 // n 1 ₁	
- a	Locke Canal V Cuselich Canal	It C. Fleme		" "	
<u> </u>	Bayou 12 Chute				(M-13E

Report for Supplemental 75433 Filed Jan, 1936

1. Name constions (geografice names from information since 75433 was published.)
applied to supplemental 1/36.