5290

U. S. COAST & GEODETIC SURVEY CIBRARY AND ARCHIVES

MAY 28 .334

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R.S. Patton., Director

State: Louisiana

DESCRIPTIVE REPORT Photo Topographic Hudrovraphic

Hudrographics

LOCALITY

Sister Lake Caillou Bay

Bayou Grand Caillou

193 4

CHIEF OF PARTY

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

applied to Chart 1050 May 1007 Ches. O. Bulg.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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.___3___

1116

REGISTER NO. T-5290 5290
State Louisiana.
General locality Sister Lake. Caillou Bay
Locality Gaillou Beyou Bayou Grand Caillou
Scale1:22,000 Date of Survey 11/30/32 19
Vascar 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 A. Remanjon, E. J. McGuirk, S. S. Gill.
Heights in feet above :to ground to tops of trees
Contour, Approximate contour, Form line interval
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.

- NOTES ON COMPILATION -

	SHEET NO. T- 5290		
	FIELD NO. 3		
PHOTOS, NO.	DATE OF PHOTOGRAPHS	TIME	
1633-1642	11/30/32	9:46 to 9:51 A. M.	
1697-1707	11/30/32	10:17 to 10:21 A. M.	
	ВУ	DATE	
PROJECTION BY E.	P. Hernanadez & Hernand	2/23/34	
PROJECTION CHECKEL	BY E. M. Noon	2/23/34	
CONTROL PLOTTED BY	F. T. Clarke J. J. Clark	2/27/34	
CONTROL CHECKED BY		2/27/34	
RADIAL LINE PLOT B	M. H. Reese, Fitch & P. Hernande	3/5 to 3/16/34	
RADIAL LINE PLOT C		3/16/34	' =
DRAFTING OF PHOTOG	A. Remanjon, S.S. RAPHS BY E. J. Mc Guirk & S.S. S. S. J. Hill	Hill 3/19 to 3/24/34, Gill. 3/26 to 4/14/34,	4/14 to 4/25/34
PASTING OF NAMES B	*	5/22/34	
REVIEW OF COMPILAT	ION BY E. L. Fitch	5/23/34	

AREA OF DETAIL INKED -- 67.6 sq. Statute Miles.

LENGTH OF SHORELINE -- (more than 100 meters from nearest opposite shore) -- 192.5 Statute Miles.

COMPILER'S REPORT.

FOR

PHOTO TOPOGRAPHIC SHEET NO. 3.

GENERAL INFORMATION:

Instructions dated November 7, 1933.

The information used in the compilation of this sheet has been obtained from the notes and sketches on the field photographs, from the reports of Lieutenant E. R. Mc Carthy, in charge of a triangulation party located in this area at the time of the compilation and from members of the field inspection party in questionable areas.

The accompanying "Notes on Compilation" details all date and statistics in connection with the compilation of this sheet. The statistics as to shoreline and area, of this sheet are approximate because of the irregularity of the coast line and the many bayous and small islands.

Due to the small tide in this area, about one foot, and the small scale of the photographs (1:24,000), its effect was neglected in the interpretation of the high water line from the photographs.

The land area shown by this sheet is composed entirely of marsh. The high winds which frequent this section of the country in the winter season force the waters of the Gulf back into the many small bayous, lakes and canals, causing excessive high tides and consequently changing the shore-line and general characteristics of the marsh. Also high winds from the North force the water out of the bayous and lakes, which also adds to the changeability of the marsh.

This_sheet was compiled from photographs taken by the United States Army Air Corps' five lens T-3A camera, No. 32-3, photograph numbers: 1632-1643 (East Flight) Approximately parallel with Longitude 90°56'30"; 1696-1708 (West Flight) approximately parallel with Longitude 90°48'30".

CONTROL:

(A) Sources.

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

- (a) Triangulation by Lieutenant E. R. Mc Carthy in 1933-34.
- (b) Triangulation by W. M. Mussetter in 1928.

 The geographic positions obtained by Lieutenant E. R.

 Mc Carthy and W. M. Mussetter were used, these are unadjusted on the North American 1927 datum, the difference between the unadjusted and final adjusted positions would be unplottable at the scale of this compilation (1:24,000).

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(B) Errors.

The control is adequate for this sheet and the radial plot gave good intersections.

(C) Discrepancies.

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

The only discrepancy in control stations was station "Grand" which was located by W. M. Mussetter in 1928. This station as picked from the field sketch would not hold in the radial line plot with the plotted position of the station. There is no doubt but what the field inspection sketch is in error as there has been large changes of shore-line in this area since the pictures were taken, and the field inspection party found it necessary to make some of the ties to the shore-line because of lack of discernable reference points. The difference between the plotted station and the station as located by the radial line plot follows:

PLOTTED POSITION

RADIAL LINE PLOT POSITION

STATION GRAND: Latitude-29°12'-1781.7m Latitude-29°12'-1727.5m Longitude-90°53'-1525.0m Longitude-90°53'-1509.0m

This station was disregarded in the drafting of the detail in this area. The station is shown on the sheet according to its computed geographic position, North American 1927 datum.

COMPILATION:

(A) Method.

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

(B) Adjustment of plot.

The photos in this compilation were free from excessive tilt and scale fluctuation. The radial line plot required no unusual adjustment.

(C) Interpretation.

In most cases, unless labeled on the prints by the field party, the classification of features had to be determined by close examination of the photos.

To denote mangle brush three or four feet high the symbol used was thus (}), otherwise only the conventional symbols as approved by the "Board of Surveys and Maps" (1932) were used, and no great difficulty was experienced in the interpretation of the photographic details.

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The large structures, indicated in solid, are shrimp drying platforms which are only four or five feet above the level of the surrounding marsh.

(D) Information from other sources.

There was no information obtained from sources other than the photos and the field inspection party. The photos were clear and it is believed the compilation is exact in all particulars.

(E) Conflicting names.

The names on this sheet were taken from progress sketches of triangulation work preformed by Lieutenant E. R. Mc Carthy, from U. S. Engineers' "Map of Southern Louisiana" and from information supplied by the field inspection party. The only conflict in name is a lake listed by Lieutenant W. D. Patterson, on his recent progress sketch of this area, as "Caillou Lake" and is listed by Lieutenant E. R. Mc Carthy and U. S. Engineers: "Map of Southern Louisiana" as "Sister Lake".

COMPARSION WITH OTHER SURVEYS.

The junction with adjoining sheets to the North, East and South, Numbers T-5289; T-5294; and T-5291 respectively, are satisfactory. There has been no recent complete surveys made to the immediate West of this sheet.

In comparing this sheet with "U. S. Coast and Geodetic Survey Chart No. 198" which only gives the shoreline, it is found that the general contour is similar. Due to the small scale (1 to 80,000) and the lack of inland features on "Chart No. 198", it is impossible to compare small details on these charts.

LANDMARKS:

All land marks and aids to navigation were submitted by Lieutenant $E \cdot R \cdot Mc$ Carthy who was engaged in this area at the time of the compilation.

RECOMMENDATIONS FOR FURTHER SURVEYS:

The compilation of this sheet is believed to have a probable error of five meters in well defined detail of importance for charting and of ten meters for other data. 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.

Les version of book.

Submitted by: H. F. Allen.

Draftsman.

Approved by: M. H. Reese.

Chief of Party.

The title was not placed in the Castomony Corner of the sheet on account of covering up important detail

$\underline{O} \,\,\underline{F} \,\,\underline{F} \,\,\underline{I} \,\,\underline{C} \,\,\underline{E} \qquad \underline{R} \,\,\underline{E} \,\,\underline{V} \,\,\underline{I} \,\,\underline{E} \,\,\underline{W}$

The following pages of this report are concerned with revision of the original compilation to obtain coordination with the contemporary hydrographic surveys of T. B. Reed.

B. G. Jones

MEMORANDUM TO ACCOMPANY SHEET NO. 5290

Hydrographic station BUL is located at Latitude 29°11' and Longitude 90°57' approximately. It was impossible to plot this station on the photographs because the field sketch gave only one tie which was not sufficient to locate the station. The geographic position of this station was plotted on the celluloid. The distance from the station to the shore line was measured and found to check with that given on the sketch. No changes in the vicinity of the station were found necessary.

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Hydrographic station DAM is located at Latitude 29°11' and Longitude 90°55' approximately. No field sketch accompanied the description and it was, therefore, impossible to locate the station on the photographs and also to establish its location by the radial line plot. The geographic position was plotted on the celluloid. A measurement of 23 meters, given in the description, from the station to the west shore was applied and found not to check. A picture was re-oriented between radial points and the shore line was found drawn slightly in error. The correction was made as shown on the overlay sheet and now the given distance from station to shore line checks.

Hydrographic station SIS is located at Latitude 29°13' and Longitude 90°56' approximately. The station, the north peak of the ridge roof of a house, was clearly visible on the photographs and therefore pricked. This station is located on the line of flight (west flight) and it was impossible to establish an intersection for its location by the radial line plot. New points were pricked around the station and the radial line plot re-run gave definite intersections for the location of these points. It is believed that these points of intersection are correct because a system of well established first order triangulation was used in connection with the hydrographic stations in making the radial line plot. Using the points, a picture was re-oriented to check the station and drawing of the shore line. It was found necessary to change the shore line a small amount as shown on the overlay sheet.

With the picture oriented between the several new points, at the station pricked on the photographs was pricked on the celluloid localidate. The point pricked does not coincide with the plotted geographic position which must be in error. The geographic position of the new point was scaled on the celluloid and accompanies the report.

Hydrographic station CAL is located at Latitude 29°12' and Longitude 90°57' approximately. The geographic position of this station coincides with the position established by the radial line plot re-run in this area.

Upon a re-orientation of pictures, it was found that the detail around the station was drawn in error. To enable a more thorough check on the drafting of detail around this station, several new points were picked on the photographs and established on the celluloid by radial line intersection. Several small changes of shore line position were found necessary and are shown on the overlay

sheet. The shore line around the station was checked by measurements given on the descriptive sketch.

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Hydrographic station RAY is located at Latitude 29°08" and Longitude 90°55' approximately. By means of the descriptive sketch, this station was plotted on the photographs and its position on the celluloid was established by the radial line plot using first order triangulation stations in conjunction with hydrographic stations as control. This position does not coincide with the plotted geographic position, which is believed to be in error.

The point established by the radial line method is taken as the correct position and its geographic position was scaled on the celluloid and accompanies this report.

Upon re-orientation of the pictures, the shore line was found drawn slightly in error. The correction, as shown on the overlay sheet, was made. Lee week

Hydrographic station TER is located at Latitude 29°14' and Longitude 90°53' approximately. This station as located by the radial line plot coincides with the geographic position.

A re-orientation of photographs showed that the island on which the station is located was drawn in error. This error is probably due to the fact that no radial points had been pricked on the island which is at a considerable distance from neighboring islands. Using the station as additional control in orienting the photograph, the correction was made and the shore line checks with measurements given on the field sketch.

Hydrographic station MUS is located at Latitude 29°13: and Longitude 90°52: approximately. The position established by the radial line plot coincides with the geographic position.

A re-crientation of the photograph revealed the shore line off the width of a line. The correction was made and the new position fits the measurements given in the description. The correction is shown on the overlay sheet.

Hydrographic station AKE is located at Latitude 29008; and Longitude 90050; approximately. The plotted geographic position coincides with the position determined by the radial line plot.

The photographs covering the area in the vicinity of the station are very dim. This area is shown on the celluloid with broken shore lines. The photographs were re-oriented and it was found necessary to change the shore line a very small amount. The corrected shore line checks with measurements given on the descriptive sketch.

Hydrographic station LUC is located at Latitude 29011: and Longitude 90051: approximately. A new radial line plot was run in

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this area and it was found that the geographic position plotted on the celluloid did not coincide with the point established by the radial line intersection. The new point obtained is believed to be correct, because a good intersection was secured from the radial line plot using first triangulation stations, in conjunction with hydrographic stations as control.

No changes were necessary. The position checks with measurements to the shore line given on the descriptive sketch. The new position was scaled on the celluloid and its geographic position accompanies the report.

Hydrographic station RIP is located at Latitude 29012* and Longitude 90048* approximately. The position established by the radial line plot coincides with the plotted geographic position.

The photographs were re-oriented and no changes of shore line were necessary. The measurements given on the descriptive sketch check the location of the station with reference to shore line.

Hydrographic station DIN is located at Latitude 29081 and Longitude 900471 approximately.

The radial line plot gave a very definite intersection which coincides with the plotted geographic position. The photographs were re-oriented using the station as control, and it was found necessary to change the shore line a small amount as shown on the overlay sheet.

The drafting was checked by measurements, from station to shore line, given on the descriptive sketch. A point to the south of the station has evidently washed since the taking of the pictures or the measurement given on the sketch is incorrect. This sharp point was drawn as shown by the photographs and scales about 23 meters longer than the measurement given on the sketch. This has been been accomplisation.

Hydrographic station HER is located at Latitude 29°08' and Longitude 90°46' approximately. The point established by the radial line plot re-run in this area does not coincide with the plotted geographic position. It is believed that the point of intersection is the correct point, because it was established using first order triangulation stations as control. No change in shore line was necessary. The geographic position for the new position accompanies the report.

Hydrographic station MAN is located at Latitude 29009: and Longitude 90045: approximately. The position established by the radial line plot coincides with the plotted geographic position.

The pictures were re-oriented to check the detail and it was found necessary to change the shore line a slight amount. The ι -correction is shown on the overlay sheet.

Hydrographic station MEL is located at Latitude 29014' and Longitude 90048' approximately.

With the ties given on the descriptive sketch, it was hard to pick accurately the station on the photographs. The sketch shows a tie east of the station taken on the shore line about midway from the north and south shores of a small cove. This point was used to control the picking of a tie to the west of the station. Assuming that the points on the shore line, to which ties were taken, were correctly picked, the station was plotted on the photographs and it was established on the celluloid by radial line intersection. The intersection established by the radial line plot does not coincide with the geographic position given in the description. The radial line intersection was taken as correct since it was obtained using well established first-order triangulation stations as control. The photographs were re-oriented using the point of intersection as control and no changes of shore line were found necessary.

The geographic position of the station as scaled from the celluloid accompanies the report.

List of geographic positions scaled from celluloid:

/sis/	29° 13 ° 90° 56°	(1467) 380 (1382) 238
MAY	29° 081 90° 551	(204) 1643 Major 5 (1016) 605 6 ° 3
$ imes_{ t LUC}$	29 ⁰ 11 ¹ 90 ⁰ 51 ¹	(928) 918 420 feb (1456) 33 32 165 33 32
THER	29° 08° 90° 46°	(1110) 737 (1210) 411 343 18
√mel	29° 14° 90° 48°	(1141) rejected 706 1762 de style style (827) 703 804 See veren of took.

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J.O. Coignet Draftsman Title (Par. 56) Forwarded with Sheet.

Chief of Party M. H. Reese

A. Remanjon Compiled by E.J. McGuirk, S.S. Gill.

ProjectLouisiana Air Photo Compilation Instructions dated November 7, 1933.

- Party No. 24.

 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".
- 3. The control and adjustment of the radial plot were adequate. (Par. 12, 29.)
- 4. 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.
- 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 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.
- 6. The span, draw and clearance of bridges are shown. (Par. 16c.)
- %. The data furnished by the Field Inspection is adequate.

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.

- Mo. 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".
- 12. The descriptions of recoverable stations and references to shore 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.)
- 14. The geographic datum of the sheet is North American 1927 and the reference station is correctly noted. (Par. 34.)
- 15. Junctions with contemporary surveys are adequate.
 - 16. Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.)
- 17. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)
 - 18. No additional surveying is recommended.
- 19. Remarks:

20. Examined and approved:

M. H. Reese. Chief of Party

21. Remarks after review in office. See neview pelot attached

Reviewed in office by: 13.9.

Examined and approved:

Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of

Hydrography and Topography.

REVIEW OF AIR PHOTO COMPILATION T 5290

Comparison with other surveys

- 1. The revision of this compilation to secure agreement with the described hydrographic stations of T. B. Reed is discussed on the preceding pages 6 to 9. The described stations are shown on the compilation and the descriptions are in agreement except for the stations listed on page 9 which are discussed below. Reference is also made to pages 8 to 12 of the report for T 5298 for a general discussion of the review of the compilations in this area.
 - a. Station "Sis", difference of 3 meters is negligible and the station is shown on the compilation.
 - b. Station "Ray", difference in location of 15 meters. This difference is most likely due to incorrect spotting of the point on the photographs and for that reason the position determined by the hydrographic party is accepted. There were only two measurements for plotting this point on the photographs. The station is shown on the compilation and the detail on the compilation has been changed slightly to agree with the descriptive sketch.
 - c. Station "Mel", See page 9 of the preceding report. The description of this station is inadequate for spotting the point on the photographs and the hydrographic location is accepted as correct. The hydrographic fix consisted of two sets of sextant angles with check angles and the plotting has been checked.

The reference distances given on the description of station Mel do not check the compilation, differing by 40 meters in one case. Comparison with the hydrographic sheet shows no reason to doubt the compilation shore line by any considerable amount. The description is evidently in error and has not been filed, and the station is not shown on the compilation.

- d. Station "Her". See page 9, difference of 15 meters. This house shows on the photographs and the photo plot ties in with several other of Reed's hydrographic stations in this vicinity. The position given on the card plots in the water. The photo position is accepted as correct. The position on H 5338 has been corrected during the review to agree with the compilation.
- e. Station "Hec". See page 9, difference of 30 meters is very probably due to change in the point between the date of the photos, 1932, and the date the station was established, 1934. The photo plot position is dependent on spotting 1934 measurements on 1932 photographs. The hydrographic position is accepted as correct and is shown on the compilation. The small March point has been cut back slightly to agree with the description.

2. Only a small part of this area is covered by the present chart 198 and the last previous planetable survey No. T 1691 (1885). Large changes have occurred. The compilation is adequate to supersede T 1691.

Names. Geographic names are in agreement with the new hydrographic surveys H 5537 and H 5538 and are accepted pending Mr. Bacon's decision on the list submitted to him except for the name Pass des Ilettes)

B.G. Jones

10/26/39. Dog Lake Bayon should be moved to connection of Dog Lake with Hackberry Lake; Pass des Iles should be in place of Dog Lake Bayon as bayon next west of Auitman Bayon. L. H. (See USGS" Dog Lake")

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Sec D. & M. decisions

Sec 1/18/38 Ence Nove decisions

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Survey No	T	5290	

Compared with USGS Surveys of 1935

Date.Apr.19,1935

GEOGRAPHIC NAMES

Chart	No.	 		

Names underlined in red approved april 25, 1935 Harlow Bacon

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

Referred to the Division of Geographic Names, Department of Interior. R Now called U.S.Board on Geographical Names = U.S.BGN.

Under investigation. Q

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Status	Name on Survey	Name on Chart or Maps as enumerated	New Names in local use	Names assigned by Field	Location
	Caillou Lake US.8	N. (not Sister)			
	Mussel Bay	Moncleuse Bay appro	ved by USBGI	V	V
	Bayou Grand Caille	u approved by U.S.BG.N.			V
		SE approved by U.S.B.GN			V
	Hackberry Lake	U5G5, 1938			
	Charleys Bay				8, 34
	Salt Bay				
	Caillou Bay	prov US G 5 1935 not SI	ter)		
	Dog Lake	USGS, 1935	Jeces	on D. 6. N	11/18/38
	Pass Ses Ilettes	Grand Pass des Iles	ttes (USGS.	1935) Referred	to USBGN.
	Dog Lake Bayou	DEN JOSSESSON 11/18/	3 8		
	Pals Stitman	Bayou Pass des Ile	ttes (USGSX	935) Refer to	USBAN
	Bayon to Well	Big Bayou Colyell	USGS1935) N	efecto U.S	BGN.
	Big Misale Bayou		decision	D.G.N 11/18/	38
	Misale Bay				
	Four Island Bayou		decesion	D.G.N 11/18	138
	Muskrat Bayou				4-7-1
2	Bay Voisin V	USGS, 1935			
	King Lake	USGS, 1935		The state of the s	
	Petil	V 1	1,0 20		

Litales Pass des Ilettes * D. G. N. deccsion 11/18/38

Little Misale Bayo

Little Misale Bayon Petit Pass des Ilettes to conform to Grand Referent to USBGN. + recommended

	GEOGRAPHIC NAMES Survey No. T 5290	, <u>,</u>	Humes Hove	de la	STAND OF THE PROPERTY OF THE P	o in the state of	Tr. local Made	Guide of	Pord McHolly	25. Jag. 1. 15.	./
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	Bayou Rocheller		 	-	~	1					2
-	Bayou Chine V			/	V						3
ļ	Bayou Nicholi v			~	V						4
ţ	Mussel Bayou			~	V	Mor	ocleu	se	Bay	USGE	
	Bay de l'Quest	/	-	V	V						6
ļ	Trouble Bayou	1		~	~						7
	Lake Becasse			~	~						8
	Little Bayon Cox	ve/1	T	-	-	Post	Bayon	1 2 l l Ch · (1 2 7	14, USGS	1009Lake	9
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	Bayou John Bop			~	v						11
	Turtle Bayou V			v	V						12
	Redfish Bayou			-	~						13
	Fish Bayou V			~	-						14
.	Bayou de l'Ouest			-							15
!	Pass des Iles										16
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