

5327

U. S. COAST & GEODETIC SURVEY  
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Form 504  
Ed. June, 1928

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

State: Louisiana

**DESCRIPTIVE REPORT**  
 Photo  
 Topographic } Sheet No. T-5327  
 Hypsographic }

LOCALITY

Chandeleur Sound

Mitchell Key to Cranetown

Bay

1934

CHIEF OF PARTY

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

5327

Applied to Oct 1268 - Aug. 1939 - D.H.D.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5327

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. 40

REGISTER NO. T-5327

State Louisiana

General locality Chandeleur Sound

Locality Mitchell Key to Cranetown Bay

Scale ~~1:24,000~~ <sup>1:20,000</sup> Photographs: 11/29/32, 19

~~Survey~~ 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 H. C. Caulfield

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 a scale of 1:20,000 by Photo-Lithography.

- NOTES ON COMPILATION -

SHEET NO. T-5327

FIELD NO. 40

PHOTOS, NO.                      DATE OF PHOTOGRAPHS                      TIME  
1182-1192                                      11/29/32                                      10:21 to 10:26 A.M.

	BY	DATE
PROJECTION	<u><i>A. A. Voss</i></u> A. A. Voss	<u>5/15/34</u>
PROJECTION CHECKED BY	<u><i>E. P. Hernandez</i></u> E. P. Hernandez	<u>5/15/34</u>
CONTROL PLOTTED BY	<u>F. T. Clarke</u>	<u>5/16/34</u>
CONTROL CHECKED BY	<u><i>H. C. Caulfield</i></u> H. C. Caulfield	<u>5/16/34</u>
RADIAL LINE PLOT BY	<u><i>H. C. Caulfield</i></u> H. C. Caulfield	<u>5/16/34</u>
RADIAL LINE PLOT CHECKED BY	<u><i>E. P. Hernandez</i></u> E. P. Hernandez	<u>5/17/34</u>
DRAFTING OF PHOTOGRAPHS BY	<u><i>H. C. Caulfield</i></u> H. C. Caulfield	<u>5/18-30/34</u>
PASTING OF NAMES BY	<u><i>H. C. Caulfield</i></u> H. C. Caulfield	<u>6/1/34</u>
REVIEW OF COMPILATION	<u><i>H. C. Caulfield</i></u> H. C. Caulfield	<u>5/31/34</u>

AREA OF DETAIL INKED-- 3.1 sq. Statute Miles.

LENGTH OF SHORELINE-- (more than 100 meters from nearest opposite shore)-- 53.2 Statute Miles.

COMPILER'S REPORT

FOR

PHOTO TOPOGRAPHIC SHEET, FIELD NO. 40.

GENERAL INFORMATION:

Instructions dated November 7, 1933.

The information used in the compilation of this sheet was obtained from the notes and sketches on the field photographs, from the reports of Lieut. W. H. Bainbridge and Lieut. E. R. Mc Carthy, in charge of triangulation parties located in this area at the time of compilation; and from members of the field inspection party in questionable areas.

The accompanying Notes on Compilation, gives all data and statistics in connection with the compilation of this sheet.

Because of the very small tide, and the small scale of the photographs, its effect was neglected in the interpretation of the high water line from the photographs.

The area covered by this sheet consists of low marsh ground, numerous small islands and ponds and no 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, 1182-1193. The line of flight falls approximately along Longitude  $89^{\circ}11'40''$ .

CONTROL:

(A) Sources:

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

(a) Triangulation by Lieut. Comdr. R. L. Schoppe and Lieutenant W. H. Bainbridge-1934.

(b) Triangulation by Lieut. E. R. Mc Carthy-1934.

Triangulation station Keel-1934, is one of the stations used as a tie, between the scheme of triangulation executed by Lieut. E. R. Mc Carthy-1934, and that executed by Lieut. W. H. Bainbridge-1934. The two geographic positions obtained are so nearly identical that the difference could not be plotted due to the small scale of this compilation.

Mitchell Key Light, located by Lieutenant W. H. Bainbridge-1934, was built since the pictures were taken, and is shown plotted on the sheet by its geographic position only.

The geographic positions are on the North American 1927 Datum and the difference between the unadjusted and the final adjusted positions, at the scale of this compilation-1:24,000 would be unplotable.

E (B) Errors:

The available control for this sheet is adequate and the radial line plot gave well defined points of intersection.

*See review at back.*

(C) Discrepancies:

No discrepancy in position of control stations was found. No control stations established by other organizations were used in this compilation.

COMPILATION:

(A) Method:

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

(B) Adjustment of Plot:

The photographs used in the compilation of this sheet were free from excessive tilt.

There was no unusual adjustments of radial plot in the drafting of the photographs.

*See review at back*

(C) Interpretation:

Only the conventional symbols as approved by the Board of Surveys and Maps (1932) were used and no great difficulty was experienced in interpreting the detail from the photographs.

To indicate bayous, the double full line was used; while the smaller bayous, which were too narrow to be shown by double lines, were indicated with a single solid line.

In most cases where the field inspection party did not classify all of the features, they had to be determined by a close examination of the photographs.

(D) Information From Other Sources:

There were no other sources of information for this sheet, other than that obtained from the photographs, from the field inspection party, and from the reports of Lieut. E. R. Mc Carthy and Lieut. W. H. Bainbridge.

(E) Conflicting Names:

The names shown on this sheet have been taken from U. S. Coast and Geodetic Survey Chart No. 1270, from progress sketches of triangulation work performed by Lieut. E. R. Mc Carthy and Lieut. W. H. Bainbridge and from information supplied by the field inspection party. All names are in current usage by the inhabitants of this particular area and no conflict of names exist.

*The names shown on this compilation agree with the charts 1268 and 1270 and no new names are shown.*

*B. J. G.*

COMPARISON WITH OTHER SURVEYS:

This sheet matches satisfactorily with the adjoining sheets to the North and West, T\*5326, T-5322, respectively.

In comparing this sheet with the section covered by U. S. Coast and Geodetic Survey Chart No. 1270, it is noted that the main features have maintained their general similarity, however, because of the difference in scales it is impossible to make an accurate comparison. *See review at back.*

LANDMARKS:

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

RECOMMENDATIONS FOR FURTHER SURVEYS:

It is believed that an error of five<sup>7</sup> meters may occur in the compilation of this sheet in well defined detail and an error of ten meters for other data. It is understood, however, that the widths of bayous, where necessary, have been slightly exaggerated in order that the detail may show up clearly in the photo-lithographic process.

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.

\* *See review at back.*

*H. C. Caulfield*  
Submitted by: H. C. Caulfield  
Draftsman.

*M. H. Reese*  
Approved by M. H. Reese.  
Chief of Party, C. & G. S.

## REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. T-5327

Title (Par. 56) Forwarded with Sheet.

Chief of Party M. H. Reese

Compiled by H. C. Caulfield.

Project Louisiana Air Photo Compilation Instructions 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".
3. The control and adjustment of the radial plot were adequate. (Par. 12, 29.) *See review of book.*
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. *See review of book.*
8. The span, draw and clearance of bridges are shown. (Par. 16c.)
9. 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.



10. The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
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 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.) *None submitted*
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.) *Unadjusted*
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.) *Page 3.*
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*  
M. H. Reese  
Chief of Party

21. Remarks after review in office:  
*see review of book.*

Reviewed in office by: *B. G. Jones*

Examined and approved:  
*K. T. Adams*  
Chief, Section of Field Records  
*L. O. Pollock*  
Chief, Division of Charts

*F. S. Gordon*  
Chief, Section of Field Work  
*G. Wade*  
Chief, Division of  
Hydrography and Topography.



Review of Air Photo Compilation T 5327 (1934)

The plot of the photographs on this compilation was complicated by the fact that the centers of most of the photographs fall over the water and there was a very limited amount of control. The accuracy of location given on Page 4 of the report is too high. To make a close estimate of the accuracy of the plot would require examination of the Photographs which are not yet in this office. From a careful examination of the control and the report which states that the photographs are free of large tilts the compilation is accepted as sufficiently accurate for charting and is adequate to supersede the older surveys in this area.

Comparison with the last topographic surveys T 769(1859) and T 654(1857) shows many changes and large sections of the islands have been washed away. Changes have been particularly large on Mitchell Key and Holmes I. The compilation does not show Barrel Key and the island shown on Chart 1268 as Barrel Key is accepted as no longer existing as an island. If the island still existed it would be shown on the photos and is not likely to have been missed by the compiler. Chart 1270 shows only a shoal at Barrel Key. This can be checked on the Photos, when they are received in the office

*B. G. Jones*  
B. G. Jones

GEOGRAPHIC NAMES

Survey No. T5327

Name on Survey	Underlined Names approved Feb. 1936 N.D.									
	A	B	C	D	E	F	G	H	K	US Engrs
	On Chart No. 1270	On previous survey No.	On U. S. S. NW Maps Change List 1935	On U. S. Quadrangle Maps From local information	RR Map of La. Map of Atchafalaya Valley of.	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
<u>Cranetown Bay</u>	✓		✓						✓	1
<u>Elephant Point Pass</u>	✓		✓						Elephants Pass	2
<u>Red Fish Bend</u>	Redfish Bend		✓	Change to	<u>Redfish</u>				Redfish Bend	3
<u>Fox Bay</u>	✓		✓						✓	4
<u>Martin I</u>	✓		✓		Martin's (RR Map La)	✓			Martin's I.	5
<u>Conkey Cove</u>	✓		✓							6
<u>Liveoak Bay</u>	10/18/38 ✓ L words		Live Oak Bay		Live Oak Bay		Refer to USBGN to secure uniformity		Live Oak Bay	7
<u>Liveoak Bayou</u>	10/ ✓		Live Oak Bayou							
<u>Holmes Is.</u>	✓		Holmes Is.						Sam Holmes Island	9
<u>Drum Bay</u>	✓		✓		✓				✓	10
<u>Mitchell Key</u>	✓		Mitchell Keys		Mitchell I.	Plural	<u>Mitchell Keys</u>		Mitchell I.	11
<u>Keelboat Pass</u>	✓		✓							12
<u>Chandeleur Sound</u>	✓		✓						✓	13
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