

5325

U. S. COAST & GEODETIC SURVEY  
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Form 504  
Ed. June, 1923

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

Mississippi  
State: Louisiana

**DESCRIPTIVE REPORT**  
 Photo }  
 Topographic } Sheet No. T-5325 5325  
 Hydrographic }

LOCALITY

Cat Island  
 Mississippi Sound  
~~Isle au Pitre to North~~  
~~Point~~

1934

CHIEF OF PARTY  
 M. H. Reese, Jr. H. & C. Engr.

U. S. COAST & GEODETIC SURVEY  
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5325

applied to chart 1267, april 26, 1938 H.S.  
applied to chart 1265 July 1938 D.S.B.  
applied to chart 877 A.V.R. 6/24  
applied to chart # 876 M.M.R. 2-17-46 was

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.  
5325

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. 38

REGISTER NO. T-5325 5325

State Louisiana and Mississippi

General locality Cat Island Mississippi Sound

Locality ~~Ile au Pigeon to North Point~~ Cat Island

Scale 1:20,000 Photographs: 12/28/32  
Date of survey 11/28/32, 19

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

Chief of party M. H. Reese

Surveyed by See data sheet of 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, 1933.

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-5325

FIELD NO. 38

PHOTOS, NOS:	DATE OF PHOTOGRAPHS	TIME
1301-1306	12/28/32	11:43 to 11:48 A. M.
1236-1246	11/28/32	11:33 to 11:39 A. M.

	BY	DATE
PROJECTION BY	<u>E. P. Hernandez</u>	<u>5/24/34</u>
PROJECTION CHECKED BY	<u>J. C. Dobler</u>	<u>5/24/34</u>
CONTROL PLOTTED BY	<u>R. E. Wagner</u>	<u>5/24/34</u>
CONTROL CHECKED BY	<u>H. C. Smith</u>	<u>5/24/34</u>
RADIAL LINE PLOT BY	<u>H. C. Smith</u>	<u>5/25/34</u>
RADIAL LINE PLOT CHECKED BY	<u>H. C. Caulfield</u>	<u>6/1/34</u>
DRAFTING OF PHOTOGRAPHS BY	<u>H. C. Caulfield</u>	<u>6/1 to 6/7/34</u>
PASTING OF NAMES BY	<u>A. J. Mc Corple</u>	<u>6/13/34</u>
REVIEW OF COMPILATION BY	<u>H. C. Caulfield</u>	<u>6/8/34</u>

AREA OF DETAIL INKED-- 6.16 sq. Statute Miles.

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

- COMPILER'S NOTES -

FOR

PHOTO TOPOGRAPHIC SHEET, FIELD NO. 38

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 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.

The high water line was taken from the photographs, also from sketches made by the field inspection party, where shore lines had changed since the photographs were taken. The sand shoals and high water line around Cat Island are of a very changeable nature, due to currents and storms. This change is quite noticeable since the photos were made, and the shoals and high water line on this sheet were traced in from outlines made on photos by the field inspection party. Along some sections of the shore there are mud flats and shell piles, which are shown with ~~broken~~ lines and indicated by name on the sheet. There is no cultivation of any nature in this area.

*No waves  
was shown  
by the compiler.*

This sheet was compiled from photographs taken by the U. S. Army Air Corps' five lens, T-3A Camera, No. 32-3, photograph numbers 1301-1306 (East Flight) approximately parallel with longitude  $89^{\circ}06'40''$  and 1236-1246 (West Flight) approximately parallel with Longitude  $89^{\circ}12'10''$ .

CONTROL:

(A) Sources:

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

(a) Triangulation by Lieut. W. H. Bainbridge-1934.

Field Geographic Positions established and computed by Lieut. W. H. Bainbridge in 1934 were used. These positions are on the North American 1927 Datum.

(B) Errors:

The control is adequate for this sheet and the radial plot gave good intersections. *See page 4 of the Review.*

(C) Discrepancies:

No discrepancies in position of control stations were found. 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 throughout in the compilation of this sheet.

(B) Adjustment of Plot:

The photographs in the two strips covering the area shown by this sheet appear to be free of excessive tilt and scale fluctuations and the radial plot required no unusual adjustment.

(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, and streams, which were too narrow to be shown by double lines, were indicated by 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 was 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. W. H. Bainbridge.

(E) Conflicting Names:

The names shown on this sheet have been taken from U. S. Coast and Geodetic Survey Chart No. 1268, from progress sketches of triangulation work performed by 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 exists. *No new names were shown. Names in the S.E. NW cot. I section agree with those on the field inspection by the USGS in 1935*

COMPARISON WITH OTHER SURVEYS:

This sheet matches satisfactorily with the adjoining sheets to the South and West, T-5326, T-5320 respectively.

In comparing this sheet with the sections covered by U. S. Coast and Geodetic Survey Chart No. 1268, 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 next page*

LANDMARKS:

*There are no*  
~~There are no~~ prominent landmarks in this area that have been recommended by the field inspection or by other field parties.

*Stop*  
Note: The two Light Houses shown on chart 1268 are were located by triangulation and are shown on this sheet

B.G. Jones.

RECOMMENDATIONS FOR FURTHER SURVEYS:

It is believed that an error of five meters may occur in the compilation of this sheet in well defined detail of importance, 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.

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

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

Note The value of 5 to 10 meters given above is high for work on this scale. A better estimate is an accuracy of location of 5 to 10 meters for intersected points and ~~7~~<sup>5</sup> to 20 meters for other detail. These values may be exceeded somewhat in the S.W. section of the compilation but detail in that area is accepted as sufficiently accurate for charting and as adequate to supersede T 3663 (1918).

Comparison with T 3663 shows minor changes but substantially the same location of the shore line.

Comparison with T 3701 (1916-17), Cat Island, shows considerable change in the long sand spit extending south westward. This spit is about 1 1/2 miles longer than in 1917. The compilation is adequate to supersede T 3701 except that it does not show the wreck at lat. 30° 11', long. 89° 06' and the report does not state whether it still exists.

*B. G. Jones*

## REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. T-5325

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 opposite page~~ page 4.
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 Page 4~~
8. The span, draw and clearance of bridges are shown. (Par. 16c.)  
~~None~~
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.) *None furnished see page 3*
14. The geographic datum of the sheet is North American 1927 and the reference station is correctly noted. (Par. 34.) *used field computations*
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.) *see 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:

Reviewed in office by:

*B. G. Jones*

Examined and approved:

*acting* *Chas. W. Green*  
 Chief, Section of Field Records  
*L. O. Colburn*  
 Chief, Division of Charts

*F. B. Borden*  
 Chief, Section of Field Work  
*G. H. Glade*  
 Chief, Division of  
 Hydrography and Topography.