10745

FORM 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey: Planimetric

Field No.: Office No.: T-10745

LOCALITY

State: Alabama
General locality: Mississippi Sound
Locality: Grand Bay

195x-1962

CHIEF OF PARTY
W.M. Reynolds, Chief of Party
W.E. Randall, Balto. District Office

LIBRARY & ARCHIVES

DATE

USCOTT DC 5067
PROJECT NO. (III):
PH-5704

FIELD OFFICE (III):
Pascagoula, Mississippi

PHOTOGRAVMETRIC OFFICE (III):
Baltimore, Maryland

CHIEF OF PARTY
William M. Reynolds

OFFICER-IN-CHARGE
William E. Randall

INSTRUCTIONS DATED (III):
II June 23, 1958
III April 7, 1959
III October 6, 1959 (supplement)

METHOD OF COMPILATION (III):
Graphic

MANUSCRIPT SCALE (III):
1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

DATE RECEIVED IN WASHINGTON OFFICE (IV):
April 15, 1968

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOREGrafIC DATUM (III):
N.A. 1927

VERTICAL DATUM (III):
Mean Higher High Water

REFERENCE STATION (III):
CADDY, 1935

LAT.: 30° 21' 01.1" N
LONG.: 88° 20' 37.3" W

ADJUSTED
X
UNADJUSTED

PLANE COORDINATES (IV):

STATE: Alabama

ZONE: West

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE,
OR (IV) WASHINGTON OFFICE.
WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.
**FIELD INSPECTION BY (II):**

M. A. Stewart

**DATE:** January 1959

**MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):**

November 1957 field inspection supplemented by office interpretation.

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<thead>
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<th>PROJECTION AND GRIDS RULED BY (IV):</th>
<th>DATE</th>
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<td>P. J. Dempsey</td>
<td>10/25/58</td>
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<td>R. D. Shoup</td>
<td>3/5/59</td>
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<td>R. J. Pate</td>
<td>4/30/59</td>
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<td>H. R. Rudolph</td>
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<tr>
<td>B. Wilson</td>
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<td>M. S. Cunningham</td>
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<tr>
<td>R. Glaser</td>
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**REMARKS:** Field Ed. 1962 (Refer to item 61, page 19)
### Nine-Lens and "L" cameras

<table>
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<tr>
<th>NUMBER</th>
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<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>56592 thru 56594</td>
<td>11-9-57</td>
<td>11:50</td>
<td>1:10,000</td>
<td>at MLW</td>
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<td>56660 thru 56662</td>
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<td>12:48</td>
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<td>0.2 ft. above MLW</td>
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<td>57L2340 thru 2344</td>
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<td>3:34</td>
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<td>57L2443 and 2444</td>
<td>18:24</td>
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### TIDE (III)

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<th>Mean range</th>
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<td>Pensacola, Florida</td>
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<th>SUBORDINATE STATION:</th>
<th>Ratio of ranges</th>
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<tr>
<td>Pascagoula River Entrance, Mississippi</td>
<td>1.6</td>
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**WASHINGTON OFFICE REVIEW BY (IV):**

Leo F. Beugnet, Atlantic Marine Center, October 1967

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):**

14*

**NUMBER OF BM(S) SEARCHED FOR (III):**

None

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):**

None

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):**

None

**REMARKS:**

* Includes five stations north of project limits.
<table>
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<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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<tr>
<td>Compiled</td>
<td>February 1960</td>
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<tr>
<td>Field Edit</td>
<td>April 1962</td>
<td></td>
</tr>
<tr>
<td>Final Review</td>
<td>October 1967</td>
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</table>
Survey T-10745 is one of 17 similar Planimetric Surveys in project Ph-5704. It covers the greater part of the shoreline of Grand Bay on the north side of Mississippi Sound.

Field work preceding compilation consisted of recovery and identification of horizontal control, field and shoreline inspection and investigation of Geographic Names and Boundaries.

Compilation was at 1:10,000 scale by radial plot methods using the 1:10,000 scale 9 lens photography obtained in November 1957. Cronaflex copies of the manuscript along with specially prepared photo-hydro support photographs, blueline tracings and ozalid prints were furnished for preparation of the hydrographers boatsheet, location of signals and field edit purposes.

The manuscript is a vinylite sheet 3 minutes 45 seconds in latitude by 3 minutes 45 seconds in longitude which was scribed and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.
FIELD INSPECTION REPORT
QUADRANGLES T-10744 - T-10745 - T-10753 - T-10754
PROJECT PH-5704

2. Arval Field Inspection. These maps are located along the southern coast of Mississippi and Alabama, south of the villages of Pecan and Grand Bay. The land area of maps T-10744 and T-10745 is covered mainly by trees and swamp. There are small areas devoted to farming. The predominant means of livelihood for the inhabitants is fishing. The land area for maps T-10753 and T-10754 is entirely marsh along mainland together with all or parts of offshore islands. These two maps completely uninhabited.

Field inspection is believed complete and was performed on the following nine-lens photographs; 56572 through 56596, 56658 through 56662, 56864, 56885, 56965, 57007 and 56709. No items were deliberately left for field edit.

Photography was of good quality and no difficulty was encountered in their interpretation in the field except for the following; the tones along the junctions of photographs 56595 and 56659 were inconsistent in marsh and swamp areas. These areas were closely inspected by walking over the ground. The limits of marsh and swamp were indicated at the same time. In some areas the limits were indefinite on the ground as well as on the photographs and the limits were generalized.

Local information revealed that the ground was extremely wet at the time of photography and it is believed that this is responsible for some of the indefinite limits. Marsh and swamp limits have been indicated in their entirety.

3. Horizontal Control. All Coast and Geodetic Survey Control was searched for and where recovered was identified.

Several third-order traverse stations, established by Alabama Geodetic Survey, were searched for. Two of these stations were recovered and identified. These stations are 318 and 318-3.

Stations GRAND 1910, BAT 1910, 327-11, 340-2 and 340-3 were indicated on the project index to be identified. These stations could not be found.

The following stations were reported lost; BAT 1910, RAIN 1910, STH 1910, GRAND 1910, 318-1, 318-2, 327-11, 340-2 and 340-3.

4. Vertical Control. Recovery of vertical control was not required.
5. **Contours and Drainage** Contours are inapplicable.

The many bayous in the area are self evident from the photographs.

6. **Woodland Cover** All woods were inspected and classified on the photographs. Woodland cover consists primarily of pine on the higher ground. The swamp areas are covered by scattered cypress and gum. See also item 2 PP3.

7. **Shoreline and Alongshore Features** The mean high water line is both fast and apparent. Any doubtful areas were inspected by walking along the shore. The remaining areas were inspected by skiff running along the shore. The mean highwater line has been indicated by symbol on the photographs. Shoreline inspection has been indicated on the following 9 lens photographs: 56659 through 56662, 56664, 56665, 56706, 56707 and 56709.

The horizontal distance between the mean high and low water lines is too short for mapping at the project scale.

There are no bluffs or cliffs in the area.

All wharves, piers or landings have been indicated on the photographs.

There are no submarine cables in the area.

8. **Offshore Features** There are none.

9. **Landmarks and Aids** There are no landmarks or fixed aids to navigation.

There are no aeronautical aids.

There are no outstanding interior features.

10. **Boundaries, Monuments and Lines** See Special Report Boundaries, Project Ph-5704. This report will be submitted at a later date.

11. **Other Control** One recoverable topographic station was identified for location by the plot. The station is BUKE 1953.

12. **Other Interior Features** All roads and buildings were field inspected. Roads have been classified and landmark buildings have been indicated on the photograph.

There are no bridges or cables over navigable waters.

There are no airports or landing fields.

14. Special Reports and Supplemental Data

Special Report Geographic Names, Project Ph-5704.

This report was submitted to the Washington office on 22 January 1959.

Special Report, Boundaries, Project Ph-5704.

This report will be submitted at a later date.

Approved:

William M. Reynolds

Submitted:

Matthew A. Stewart
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR ( y )-COORDINATE</th>
<th>LONGITUDE OR ( x )-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>p. 63</td>
<td>N.A. 1927</td>
<td>30.24</td>
<td>01.141</td>
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<td>996.8</td>
<td>604.8</td>
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<td>WOOD, 1930</td>
<td>p. 19</td>
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<td>30.26</td>
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<td>56.150</td>
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<td>30.24</td>
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<td>88.21</td>
<td>56.150</td>
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1 FT = 0.3048008 METER

COMPUTED BY: R. R. Wagner
DATE: 2/14/59

CHECKED BY: R. J. Pate
DATE: 4/14/59
21. **AREA COVERED**

This radial plot covers the area of the surveys listed above. They are planimetric surveys along the north shore of Mississippi Sound between Bayou Casotte on the west and Bayou LaBatre on the east. The area also includes Pt. Aux Chenes Bay, Grand Bay, the entrance to Bayou LaBatre, and all of Isle Aux Herbes.

22. **METHOD - RADIAL PLOT**

**Map Manuscripts:**
Mylar sheets with polyconic projections in black, Mississippi State Grid, East Zone, in red; Alabama State Grid, West Zone, in red or green were furnished by the Washington Office.

All triangulation and substitute points were plotted in the Tampa Office prior to transmitting the manuscripts to this office. Some pass points and photo centers were established by a previous plot on surveys T-10743 and T-10752.

A sketch showing the layout of the surveys, distribution of control and photograph centers is attached to this report.

**Photographs:**
Thirty-five (35) nine-lens photographs, taken in 1957 at a scale of 1:10,000 were used in the radial plot, numbered as follows:

- 56590 through 56599,
- 56655 " 56664,
- 56679 " 56688,
- 56705 " 56707,
- 56754 and 56755.

**Templets:**
Vinylite templets were made using the master templet to correct for film and paper distortion, and chamber displacement.

**Closure and Adjustment to Control:**
The radial plot was constructed directly on the map manuscripts. The construction was started at the west end of the area by relaying the templets in the areas of Surveys Nos. T-10743 and T-10752, using the photograph centers and pass points established by the previous plot. The plot was extended eastward to the control just west of the eastern limits of Surveys Nos. T-10746 and T-10755. No information had been received relative to the control beyond the limits of those surveys.
The templates for the middle flight were laid first followed by the northern flight. After adjusting the templates and by-passing one Control Station, namely 318 (AGS) 1940, a rigid plot was made. The southern flight and the two diagonal flights were then added without further difficulty.

Transfer of Points
The position of all photograph centers and pass points were pricked on the top templates and then drilled through the templates and map manuscripts.

23. ADEQUACY OF CONTROL

The density and distribution of control was adequate for all surveys, except the northeast portion of Survey T-10746, which was not completed in this radial plot.

The following control station could not be held in the plot:
318 (AGS) 1940 - The radially plotted position of the substitute station falls approximately 0.5 m. ESW of the plotted position. The point identified was a small bush. There is another small bush approximately 0.5 m., ENE of the one identified. Since there is another control station nearby which was held in the plot, it is possible that the wrong bush was identified.

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

Some of the photographs in this plot were warped creating an uneven surface. This made it difficult to adjust the templates to the photographs.

Respectfully submitted
22 December 1959

Harry R. Rudolph
Carto. (Photo.)
A Control Station Identified

\( \triangleleft \) Control Station not held in plot

Nile lens office photographs

SURVEYS T-10743 thru T-10746

PROJECT PH-5704

LAYOUT SKETCH

- Bayou la Batre, Light, 1930
- Bayou la Batre, Range Rear Light, 1930
- Bayou la Batre, Range Rear Light, 1956
- Bayou la Batre, Range Rear Light, 1956
- Bayou la Batre, Range Rear Light, 1956
- Bayou la Batre, Range Rear Light, 1956
- Bayou la Batre, Range Rear Light, 1956
- Bayou la Batre, Range Rear Light, 1956
- Bayou la Batre, Range Rear Light, 1956
- Bayou la Batre, Range Rear Light, 1956
31. **DELINEATION**

The manuscript was delineated by graphic methods.

32. **CONTROL**

Identification and distribution of horizontal control was adequate. Although additional control would have been useful, the results are considered adequate.

33. **SUPPLEMENTAL DATA**

Preliminary and Final Names Sheets prepared on U.S.G.S. Grand Bay, Ala.-Miss. quadrangle.

34. **CONTOURS AND DRAINAGE**

Contours: Not applicable.

Drainage: No comment.

35. **SHORELINE AND ALONGSHORE DETAILS**

The shoreline inspection was adequate.

The small sections of low-water line delineated on T-10745, essentially the offshore limit of mud, was by office interpretation.

36. **OFFSHORE DETAILS**

No comment.

37. **LANDMARKS AND AIDS**

None.
38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junction is in agreement between the two subject surveys. Junctions have also been made and are in agreement with the following surveys:

- T-10743 to the west.
- T-10746 to the east.
- T-10753 to the south.

There are no contemporary surveys to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. BOUNDARIES

The Alabama-Mississippi state boundary line (T-10744) was plotted by using triangulation station STATE LINE 2, 1958 (which is located several minutes to the north of survey T-10744) and the average of several points of detail along the line as shown on the Grand Bay quadrangle correlated to the manuscript.

42 through 45. Not applicable.

46. COMPARISON WITH EXISTING MAPS


47. COMPARISON WITH NAUTICAL CHARTS

Chart 874, scale 1:40,000, published 7/2/51, and revised to 3/23/59.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
11 March 1960
Raymond Glaser
Carto. (Photo.)

Approved and Forwarded

[Signature]

Raymond Glaser
Carto. (Photo.)

William E. Randall
LGDQ, CGS
Baltimore District Officer
46. **GEOGRAPHIC NAME LIST**

* Bayou Caddy
  - Bayou LaFourche Bay
  - Bull Bay Bayou
  - Grand Bay
  - Grand Bayou
  - Grand Bay Swamp
  - Little Bay Island
  - Marsh Island
  - Mobile County
  - Point Caddy

** Sandy Bay **

* Position for these names taken from chart No. 874.

** From Chart 874-SC **

---

Names approved

June 18, 1968

Wright

Frank W. Frickert
49. NOTES FOR THE HYDROGRAPHER

Investigate offshore objects about 200 meters north of MARSH ISLAND. There was no field inspection and therefore the character of the features could not be determined. It appears from office examination to be a pile or dolphin, a shallow area and a small islet or sand bar.
PHOTOGRAMMETRIC OFFICE REVIEW

T. 10744 & T. 10745

1. Projection and grids
2. Title
3. Manuscript numbers
4. Manuscript size

CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy
6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)
7. Photo hydro stations
8. Bench marks
9. Plotting of sextant fixes
10. Photogrammetric plot report
11. Detail points

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline
13. Low-water line
14. Rocks, shoals, etc.
15. Bridges
16. Aids to navigation
17. Landmarks
18. Other along-shore physical features
19. Other along-shore cultural features

PHYSICAL FEATURES
20. Water features
21. Natural ground cover
22. Planetable contours
23. Stereoscopic instrument contours
24. Contours in general
25. Spot elevations
26. Other physical features

CULTURAL FEATURES
27. Roads
28. Buildings
29. Railroads
30. Other cultural features

BOUNDARIES
31. Boundary lines
32. Public land lines

MISCELLANEOUS
33. Geographic names
34. Junctions
35. Legibility of the manuscript
36. Discrepancy overlay
37. Descriptive Report
38. Field inspection photographs
39. Forms
40. Reviewer
41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler
Supervisor

43. Remarks:
   Refer to item 61, page 19.
51. Methods
The shoreline was inspected by truck, skiff, and walking along the beach. The distance to the LMSL from known points was checked and found to be correct and adequate, except where noted in red on all valid copies of the manuscripts.
Field edit information has been shown on field edit sheets for T-10741, T-10742, T-10748, T-10749, T-10750, T-10765, T-10766 and T-10767.

52. Adequacy of Compilation
The map compilation appears to be complete and adequate.

53. Map Accuracy
The shoreline is accurate, except for changes since photography, as shown on the field edit sheets. However, the Bayou Casotte-Pascagoula area is under extensive development and changes in land marks and shoreline will be many in the next few years. The Pascagoula and Bayou Casotte channels are being reduged at the present time.
Since a hydrographic survey of Mississippi Sound is now in progress the hydrographic unit has said that they will delineate the new spoil banks when the dredging is completed.

54. Recommendations
There are no recommendations.

55. Examination of Proof Copy
No one was contacted to examine a proof copy of the map.

Submitted: 30 April, 1962

James H. Blumer
Sub Unit 721
61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

There was no field edit sheet with the data provided to the Final Reviewer for this survey. The Field Edit Report of April 30, 1962 included this map and it is assumed that there were no field edit corrections.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

There were no previous Registered Topographic surveys of the area available at the time of Final Review.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with a copy of USGS GRAND BAY, ALA., 1:24,000 scale 7½ minute quadrangle, edition of 1958. The two surveys are in good agreement except along part of the shoreline particularly in the area of Marsh Island. The difference has been noted on the Comparison Print in purple.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of smooth sheet H-86h6. The shoreline of the two surveys are in good agreement.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 87h-SC, 2nd Edition, corrected thru NM 46- November 12, 1966. No differences between the two surveys were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standard of Map Accuracy.

67. PHOTOGRAPHS

The following photographs were used during Final Review:
57 L 23h0 thru 23h4
57 L 24h3 and 24h4
Reviewed by:

Leo F. Beugnet

Approved by:

For J. Bull, RADM
Director, Atlantic Marine Ctr.

Approved by:

Charles Swann
Chief, Photogrammetric Branch

R. V. Huntley
Chief, Photogrammetry Division

John C. layered
Chief, Nautical Chart Division