DESCRIPTIVE REPORT

Type of Survey: Planimetric
Field No.: Office No.: T-10757

LOCALITY
State: Alabama
General locality: Mississippi Sound
Locality: Heron Bayou

1957-1960

CHIEF OF PARTY
Roger F. Lanier, Chief of Field Party
William R. Kachel, Tampa District Office

LIBRARY & ARCHIVES

DATE
DESCRIPTIVE REPORT - DATA RECORD

T -10757

Project No. (II): Ph-5704  Quadrangle Name (IV):

Field Office (II): Pascagoula, Mississippi  Chief of Party: Roger F. Lanier

Instructions dated (II) (III): II 23 June 1958 (Field)  Copy filed in Division of
  10 Feb. 1959 (Field Suppl.1)  Photogrammetry (IV)
III  7 Apr. 1959 (Office)  9 Sept. 1959 (Stereo Bridging)
  17 Aug. 1959 (Office Suppl.1)  6 Oct. 1959 (Office Suppl.1)
  17 Aug. 1959 (Field Suppl.2)  10 Nov. 1959 (Field and Office Suppl.3)
Location of Aids to Navigation dated 7 Oct. 1959

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000  Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None  JAN 12 1961 (Final April 15, 1961)
Date received in Washington Office (IV):  Date reported to Nautical Chart Branch (IV):

Applied to Chart No.  Date:  Date registered (IV):

Publication Scale (IV):  Publication date (IV):

Geographic Datum (III): N.A. 1927  Vertical Datum (III): MHW

Reference Station (III): MOBILE RADIO ANTENNA WLO 1958 (Reported "Destroyed" by Field)

Lat.: 30°20'04.869" (149.9 m)  Long.: 88°07'18.309" (1290.4 m)  Unadjusted

Plane Coordinates (IV):  State:  Zone:
Y=  X=

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.
DESCRPTIVE REPORT - DATA RECORD

Field Inspection by (II): Leo F. Beugnet

Date: September 1958

Planetable contouring by (II): Inapplicable

Date: 

Completion Surveys by (II): M. L. Olivier

Date: August 1960

Mean High Water Location (III) (State date and method of location): Air Photo Compilation

Date of Photography: November 9, 1957 and November 19, 1957

Projection and Grids ruled by (IV): P. J. Dempsey

Date: December 1958

Projection and Grids checked by (IV): R. D. Shoup (W.O.)

Date: March 1959

Control plotted by (III): R. J. Pate

Date: April 1959

Control checked by (III): R. R. Wagner

Date: April 1959

Radial Plot

Date: September 1959

Construction by (III): R. R. Wagner

Date:

Stereoscopic Instrument compilation (III): Inapplicable

Date:

Planimetry

Contours

Manuscript delineated by (III): R. Dossett

Date: November 1959

of compilation

Photogrammetric Office Review by (III): W. H. Shearouse

Date: December 1959

Elevations on Manuscript

checked by (II) (III): Inapplicable

Date:
### PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>56675</td>
<td>Nov. 9, 1957</td>
<td>13:00</td>
<td>1:10,000</td>
<td>Inshore</td>
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<tr>
<td>56676</td>
<td>&quot;</td>
<td>13:01</td>
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<tr>
<td>56793</td>
<td>Nov. 19, 1957</td>
<td>14:33</td>
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<td>56860</td>
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<td>15:31</td>
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<td>56861</td>
<td>&quot;</td>
<td>15:32</td>
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<td>&quot;</td>
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<tr>
<td>56862</td>
<td>&quot;</td>
<td>15:32</td>
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<td>&quot;</td>
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</table>

### Predicted Tide (III)

<table>
<thead>
<tr>
<th>Reference Station: Mobile</th>
<th>Subordinate Station: Mobile Pt. (Fort Morgan)</th>
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</thead>
</table>

Diurnal

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>1.2</td>
</tr>
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</table>

Final Drafting by (IV): V. P. Cazzolasi, Tampa District Office  
Review by: W. H. Shearouse  

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 11
Shoreline (More than 200 meters to opposite shore) (III): 26

Control Leveling - Miles (II): Inapplicable
Number of Triangulation Stations searched for (II): 10  
Recovered: 3  
Identified: 3
Number of BMs searched for (II):  
Recovered: -  
Identified: -
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks: One (1) third-order triangulation - intersection station established.

This station was reported destroyed by field editor in 1960.
<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>Field Inspection</td>
<td>September 1958</td>
<td></td>
</tr>
<tr>
<td>Compilation</td>
<td>November 1959</td>
<td></td>
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<tr>
<td>Field Edit</td>
<td>August 1960</td>
<td></td>
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<tr>
<td>Final Review</td>
<td>December 1967</td>
<td></td>
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</table>
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-10757

Planimetric Survey T-10757 is one of seventy-four similar surveys in Project PH-5704. It covers a part of the north shore of Mississippi Sound in the area of Heron Bay and a small part of the west shore of Mobile Bay.

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

Compilation was at 1:10,000 scale by graphic methods using the 9 lens photography of November 1957. Cronaflex copies of the manuscript along with specially prepared photographs, and ozalid prints were furnished for preparation of the hydrographers boatsheet, location of hydrographic signals and for field edit use.

The manuscript is a vinylite sheet which was scribed and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.
FIELD INSPECTION REPORT
Maps T-10746, T-10747, T-10755 through T-10758
Project Ph-5704

2. Areal Field Inspection  These maps are located in southwestern
Alabama along the northern side of Mississippi Sound and the west
side of Mobile Bay. The land area is the mainland along the sound
and several offshore islands. The area is sparsely settled except
for several small villages, Bayou La Batre, Coden and Heron Bay.
Bayou La Batre is the only incorporated village in the area. The
principal industries are shrimp fishing and oystering. The shrimp
and oyster fleets base out of Bayou La Batre and Coden. The area
is accessible by shallow draft boats and an adequate network of hard-
surfaced highways.

The offshore islands are uninhabited and are entirely marsh
except for sand or shell fringes along the edges.

Field inspection is believed complete and no items were delib-
erately left for field edit.

Photography was of fairly recent date and of good quality. The
usual tone changes were evident on the photographs, while in sand or
shell areas, grey in marsh and open, uncultivated areas and black in
the wooded areas. Attention is called to the areas of grass in water
and marsh. The difference in tone is indefinite and considerable
time was spent walking along the shore in order to indicate the
apparent shoreline on the photographs. It is believed the correct
line has been indicated. The black tones, in the marsh areas, are
covered by much higher grass than the grey tones. The grass along
the edges of the marsh also appear to have increased in density
since photography. Field inspection notes appear on the following
nine-lens photographs, 56586 through 56591, 56662 through 56666,
56668, 56667 through 56680, 56751 through 56755, 56788, 56790,
56792, 56793 and 56860 through 56862.

3. Horizontal Control  All Coast and Geodetic Survey control was
searched for and where recovered was identified to control the plot.

A small scheme of third-order triangulation was observed. The
following stations were established, MARSH, MURDER 2, Miss. Sound,
Bayou Coden Channel Leading Light, Miss. Sound, Bayou La Batre Light
2, Miss. Sound, Bayou La Batre Light 6, Miss. Sound Bayou La Batre
Range Front Light, Miss. Sound, Bayou La Batre Range Rear Light and
Mobile Marine Radio Antenna WLO.
The following third-order traverse stations established by the Alabama Geodetic Survey were recovered and identified, 304-2, 304-9, 304-10, 318-3, 318-6, 318-13, 325-4, 328-2, 334-1 and 334-2.

The following stations were reported lost, CAT 2 1935, MURDER 1910, NEGRO 1910, Hotel Center Cable 1910, IN 1910, East End First Shack 1910, East End Second Shack 1910, East End Third Shack 1910, Fort Chimney 1910, LIT 1910, LIGHT 1910, TREE 1910, Y TREE 1910, BAR 1910, JULES HOUSE SOUTHEAST GABLE 1910, HERON 1910, IDAN 1910, EAST CHIMNEY (THREE DECKER) 1910, Bayou La Batre Beacon No. 2 1935, Bayou La Batre Beacon No. 4 1935, 205-5 1940, 301-1 1940, 301-2 1940, 304-1 1940, 304-2 1940, 304-4 1940, 315-2 1940, 318-4 1940, 318-7 1940, 318-8 1940, 318-9 1940, 318-10 1940, 318-12 1940, 328-1 1940, 328-3 1940, 328-4 1940, 328-5 1940, 329-3 1940, 329-4 1940 and 334-1 1940.

The following stations were reported lost but were identified, CAT 1935 and JULIET 1910. Reference marks were identified in lieu of the stations. The monuments at stations 304-2 and 334-1 were broken off but were identified. The disk had been removed from 329-2 but the station was identified.

4. **Vertical Control** Two tidal bench marks were recovered and identified. The marks are Alabama Fort, Mobile Bay Bench Mark 1 or X 11 (1918) and Bayou La Batre Tidal BM 2 10 (1918). No other control was searched for.

5. **Contours and Drainage** Contours are inapplicable. The short stream inland from the shore are self-evident from the photographs.

6. **Woodland Cover** Adequately covered by the photographs.

7. **Shoreline and Alongshore Features** The mean high water line and apparent shoreline was inspected by skiff and walking along the shore. Several different tones were noted as marsh. Some of the difference is due to different heights and density of the grass. The only difficulty was in determining the line between marsh and grass in water. These areas were carefully inspected and correctly indicated on the photographs.

The approximate low water line was indicated around two bars on photographs 56664 and 56677.

There are no bluffs or cliffs.

*See 1959 Form 526, "JULIET" is Destroyed.

See Photogrammetric Plot Report.*
All docks, wharves and piers have been indicated on the photographs.

Shoreline inspection notes have been indicated on the following photographs: 56662 through 56664, 56677 through 56679, 56751, 56752, 56754, 56755, 56793, 56860, 56861 and 56862.

8. Offshore Features There are none.

9. Landmarks and Aids There are no landmarks for nautical charts in this area.

There are no aeronautical aids in the area.

Fixed aids to navigation were located by three methods, triangulation or direct photograph identification. The daybeacons along Bayou La Batre were visible on one photograph. An angle and distance, from a photo point, were observed as a check on their location. The daybeacons along Bayou Coden were located by angle and distance from identifiable photo points.

10. Boundaries, Monuments and Lines The only boundaries affecting these maps are the corporate limits of Bayou La Batre. These will be submitted at a later date.

11. Other Interior Features All roads have been classified on the field inspection photographs.

Buildings were field inspected and have been indicated on the photographs.

Measurement of bridges and cables was not required by the project instructions.

There are no airports or landing fields.

12. Other Control The recovered and established horizontal control filled the requirements for spacing stations.

13. Geographic Names See Special Report Geographic Names Project Ph-5704. The report will be submitted at a later date.

14. Special Reports and Supplemental Data

Special Report Geographic Names, Project Ph-5704. The report will be submitted at a later date.
Special Report, Boundaries, Project Ph-5704. The report will be submitted at a later date.

Submitted:

William M. Reynolds
William M. Reynolds
Cartographer

Approved and Forwarded:

Roger F. Lenier
Roger F. Lenier
Chief of Party
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR (\phi)-COORDINATE</th>
<th>LONGITUDE OR (\lambda)-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
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<tbody>
<tr>
<td>MARINE</td>
<td>GROUND CONTROL</td>
<td>1958</td>
<td>30.20 24.8669</td>
<td>248 07 48.369</td>
<td>149.7 (119.7)</td>
<td>153.4 (112.3)</td>
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<td>RADIO</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>ANTENNA</td>
<td></td>
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<tr>
<td>304-9</td>
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<td>GEOD.</td>
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<td>GEOD.</td>
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<td>1940</td>
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</table>

* Station reported destroyed by Field Editor

** Outside map limits

*** Not plotted

568
PHOTOGRAMMETRIC PLOT REPORT

21. AREA COVERED

Photogrammetric Plot No. 1 of Ph-57014 was for the entrance to Mobile Bay and all of Dauphin Island (manuscripts T-10757, T-10758, T-10761, T-10762, T-10770 through T-10772), and also eastward along a narrow peninsula between Bon Secour Bay and the Gulf of Mexico (manuscripts T-10773 through T-10776).

The sketch on page 14 of this report shows the arrangement of manuscripts, the identified control, index of control, photograph centers and the adjoining manuscripts.

22. METHOD

Radial Plot:

Map manuscripts: -- The projections are 3°45' in latitude and longitude with the exceptions of T-10774 through T-10776 which are 1°15' in latitude. The western limit of T-10770 was extended to 88°19'. See letter (copy attached) to Chief, Photogrammetry Division, dated 17 September 1959. The northern limit of T-10771 was extended to 30°15'30" to accommodate detail in this area.

The plot was run on the joined manuscripts.

Photographs: -- The nine-lens photographs of 19 November 1957 at a scale of 1:10,000 were used to run the plot.

Contact single-lens infra red photographs were taken simultaneously with the nine-lens photographs with Camera "L" being used.

Only those single-lens photographs were located where it was believed they would aid the compiler in locating the photo-hydro stations. They were fixed in position by holding pass points located by the nine-lens photographs.

Templets: -- Vinylite templets were made from nine-lens photographs using master templet 53605 (1956-1957) for correction of transforming errors and paper distortion.

Closure and adjustment to control: -- The plot was run from east to west with conventional methods being used. Two Alabama Geodetic Survey control stations could not be held in the plot. See letter (copy attached) to Chief, Photogrammetry Division, dated 8 September 1959.
23. ADEQUACY OF CONTROL

The control was adequate and all of it was positively identified. In the northern part of T-10758, it could not be determined which of two stations was in error, and MON LOUIS RM 2 1930 and JULIET R.M.A. 1910 were returned to the field for verification. It was found that JULIET R.M. "A" actually had been destroyed at the time of the original identification and should not have been identified. (See 1959 recovery). A new substitute station was located for MON LOUIS and was held in the plot.

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

The nine-lens photographs gave adequate coverage, however the quality of the photographs was poor. Most of the photographs have a muddy appearance and on 567558 three fiducial marks were missing in the wing chambers. See attached letter dated 1 September 1959, Subject "Washboard Affect of nine-lens photographs".

None of the photographs were sufficiently tilted to justify special measures.

26. GENERAL

Dates of completion of the photogrammetric plot by maps are as follows:

<table>
<thead>
<tr>
<th>Station</th>
<th>Date of Completion</th>
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<tbody>
<tr>
<td>T-10757</td>
<td>8 September 1959</td>
</tr>
<tr>
<td>T-10758</td>
<td>8 September 1959</td>
</tr>
<tr>
<td>T-10761</td>
<td>3 September 1959</td>
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<td>T-10762</td>
<td>4 September 1959</td>
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<td>T-10770</td>
<td>21 September 1959</td>
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<td>T-10771</td>
<td>21 September 1959</td>
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<tr>
<td>T-10772</td>
<td>28 August 1959</td>
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<tr>
<td>T-10773</td>
<td>14 August 1959</td>
</tr>
<tr>
<td>T-10774</td>
<td>14 August 1959</td>
</tr>
<tr>
<td>T-10775</td>
<td>13 August 1959</td>
</tr>
<tr>
<td>T-10776</td>
<td>13 August 1959</td>
</tr>
</tbody>
</table>

Respectfully submitted

[Signature]
Robert R. Wagner
Cartographer (Photo)

APPROVED & FORWARDED

[Signature]
William R. Koch

[Signature]
Arthur L. Wardwell
Tampa District Officer
COMPILATION REPORT T-10757

31. **DELINEATION**

Compiled graphically.
The photographs were of reasonably good scale, however some tilt existed in all.
The field inspection was adequate.

32. **CONTROL**

See Photogrammetric Plot Report.

33. **SUPPLEMENTAL DATA**

None.

34. **CONTOURS AND DRAINAGE**

Contours are inapplicable.

All drainage was visible or indicated by the field inspector.

35. **SHORELINE AND ALONGSHORE DETAILS**

The majority of the shoreline is apparent. No shoal or low-water lines were indicated by the field inspector and none were apparent on the photographs. All piers, bulkheads and other shore structures have been delineated according to inspection notes.

Shoreline inspection was adequate.

36. **OFFSHORE DETAILS**

None.

37. **LANDMARKS AND AIDS**

Form 567 for two aids were forwarded to Washington on 15 July 1960. No landmarks were recommended.
38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

A satisfactory junction has been secured with T-10942 on the north, T-10761 on the south, and T-10758 on the east. A strip of the map details along the western limits has been furnished the Baltimore District Office for junction purposes with map T-10756.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with USGS topographic quadrangle "Cedar Point, Ala.", edition of 1943, scale 1:62,500, surveyed in 1940-41 and USGS planimetric map T-5533, scale 1:20,000, compiled from air photographs taken July 16, 1934. No outstanding discrepancies were noted in the shoreline. Some new roads are shown in the vicinity of the settlement of Heron Bay.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with nautical chart 1266, scale 1:80,000 15th edition dated 16 November 1959. The shoreline compares favorably. Only minor cultural differences were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Approved and Forwarded:

William R. Kachel
Chief of Party.

Rudolph Rossett
Carto Photo Aid
48. GEOGRAPHIC NAME LIST

Excepting the names noted below, all were taken from the Geographic Name Sheet of 23 May, 1958 from the Washington Office by L. Heck.

- ALABAMA
  - BARRY POINT
  - BAYOU COPELAND
  - CEDAR POINT ROAD
  - CLARK BAYOU
  - GATES BAYOU
  - GOOSE BAYOU
  - HERON BAY (TOWN)
  - HERON BAY
  - HERON BAYOU
  - JACKS BAYOU
  - MISSISSIPPI SOUND
  - MOBILE BAY
  - MOBILE COUNTY
  - MON LOUIS ISLAND
  - STATE 163 (from Alabama Highway Map)
  - STATE 188 (from """
  - ST MICHAEL CHURCH (from Field Inspection)
  - WEST FOWL RIVER (from Nautical Chart 1266)

Names approved
June 26, 1968

Frank W. Pickett
A. J. Wright
PHOTOGRAMMETRIC OFFICE REVIEW

T. 10757

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

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline WHS
13. Low-water line XX
14. Rocks, shoals, etc. XX
15. Bridges WHS
16. Aids to navigation WHS
17. Landmarks XX
18. Other alongshore physical features WHS
19. Other alongshore cultural features WHS

PHYSICAL FEATURES

20. Water features WHS
21. Natural ground cover WHS
22. Planetary contours XX
23. Stereoscopic instrument contours XX
24. Contours in general XX
25. Spot elevations XX
26. Other physical features WHS

CULTURAL FEATURES

27. Roads WHS
28. Buildings WHS
29. Railroads XX
30. Other cultural features WHS

BOUNDARIES

31. Boundary lines XX
32. Public land lines XX

MISCELLANEOUS

33. Geographic names WHS
34. Junctions WHS
35. Legibility of the manuscript WHS
36. Discrepancy overlay XX
37. Descriptive Report WHS
38. Field inspection photographs WHS
39. Forms WHS

40.Reviewer

W. H. Shearouse

W. M. Slavney

Supervisor, Review Section or Unit M. M. Slavney

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.

Compile

Supervisor

43. Remarks:
Field Edit Report
(Shoreline)
Quadrangles T-10942, T-10943, T-10757, T-10758
Project FH-5704

51. Methods.

The distance to the NHML was spot checked along the shoreline. Additions and corrections to the manuscript have been noted on the field-edit sheet in red.

Field-edit information has been shown on field-edit sheets for T-10942, T-10943, T-10757, and T-10758.

52. Adequacy of compilation.

Map compilation appears complete and adequate.

53. Map accuracy.

The shoreline of the maps is accurate except for the minor changes since photography as shown of the field-edit sheet.

54. Recommendations.

There are no recommendations.

55. Examination of proof copy.

The following person is able to read a map of this area with assurance and has agreed to examine a proof copy of the map for possible errors: Byrd L. Moore, 36 N. Section Street, Fairhope, Alabama.

Submitted:
Michael L. Olivier
Photo Hydro Support Unit 720
61. **GENERAL STATEMENT:**

See Summary accompanying the Descriptive Report.

62. **COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:**

Comparison was made with Planimetric Survey T-5533, 1:20,000 scale, compiled from photography of July 1934. The shoreline of the two surveys are in good agreement, the small differences have been indicated on the Comparison Print in blue.

63. **COMPARISON WITH MAPS OF OTHER AGENCIES:**

A visual comparison was made with U.S.G.S. HERON BAY, ALA., 7½ minute quadrangle, 1:24,000 scale, edition of 1958. The comparison was good and there are no outstanding differences.

64. **COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:**

Comparison was made with the three smooth sheets that this manuscript effects; H-8642 ECFF 10-10-61, H-8641 ECFF 10-12-61 and H-8560 ECFF 10-4-60. The shoreline, in the applicable areas of these surveys, was taken from a copy of the manuscript and there are no discrepancies.

65. **COMPARISON WITH NAUTICAL CHARTS:**

Comparison was made with Chart 872-SC, 2nd Edition, corrected thru NM-38-Sept. 17, 1966. The position of Heron Bay Channel Light 3 on the chart is not in agreement with the position on the manuscript and on the smooth sheet. This difference along with the difference in the shoreline has been indicated on the Comparison Print.

66. **ADEQUACY OF RESULTS AND FUTURE SURVEYS:**

This survey complies with instructions and meets the National Standards of Map Accuracy.
Reviewed by:

Leo F. Beugnet

Approved by:

For J. Bull, HADM, USESSA
Director, Atlantic Marine Center

Approved by:

Chief, Photogrammetric Branch

Chief, Photogrammetry Division

Chief, Nautical Chart Division

Marine