**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>PLANIMETRIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td></td>
</tr>
<tr>
<td>Office No.</td>
<td>T-10940</td>
</tr>
<tr>
<td>State</td>
<td>ALABAMA</td>
</tr>
<tr>
<td>General locality</td>
<td>MOBILE BAY</td>
</tr>
<tr>
<td>Locality</td>
<td>POWL RIVER</td>
</tr>
</tbody>
</table>

**1957 - 1961**

**CHIEF OF PARTY**
Joseph K. Wilson, Chief of Field Party
V.Ralph Sobiersalski, Tampa District Officer

**LIBRARY & ARCHIVES**

**DATE**
FEB 4 - 1956
DESCRIPTIVE REPORT - DATA RECORD

T - 10940

Project No. (II): PH-5704

Field Office (II): Pascagoula, Miss.

Chief of Party: J. K. Wilson

Photogrammetric Office (III): Tampa District Office

Officer-in-Charge: V. Ralph Sobieralski

Instructions dated (II) (Field)
23 June 1958 (Field)
10 February 1959 (Field Suppl. 1)
(III) 7 April 1959 (Office)
17 Aug. 1959 (Office Suppl. 1)
17 Aug. 1959 (Field Suppl. 2)
9 Sept. 1959 (Stereo Bridging)
6 Oct. 1959 (Office Suppl. 1)
10 Nov. 1959 (Field & Office Suppl. 3)

Location of Aids to Navigation dated 7 October 1959

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date:

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III): MHw

Mean higher low water except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): Mc Adams 1935

Lat.: 30°29'07.301" (224.8m.)
Long.: 88°10'09.330" (248.8m.)

Plane Coordinates (IV):

State: ALABAMA Zone: WEST

Y = 177,133.43 Ft.
X = 289,188.61 Ft.
Areas contoured by various personnel
(Show name within area)
(II) (III)
Inapplicable
DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): J. K. Wilson
M. A. Stewart
Date: April 1959

Planetable contouring by (II): Inapplicable
Date:

Completion Surveys by (II): E. E. Brown
Date: March 1960

Mean High Water Location (III) (State date and method of location):
Air photo compilation
Date of photographs: 19 November 1957

Projection and Grids ruled by (IV): P. J. Dempsey (W. O.)
Date: Aug. 1959

Projection and Grids checked by (IV): R. D. Shoup (W. O.)
Date: Aug. 1959

Control plotted by (III): V. P. Cackowski
Date: Sept. 1959

Control checked by (III): R. R. Wagner
Date: Sept. 1959

Radial Plot or Stereoscopic-Plane control-extension by (III): R. R. Wagner
Date: Jan. 1960

Stereoscopic Instrument compilation (III): Inapplicable
Date:

Planimetry

Contours

Manuscript delineated by (III): E. T. Ogilby
Date: March 1960

Photogrammetric Office Review by (III): W. H. Shaarouse
Date: April 1960

Elevations on Manuscript checked by (II) (III): Inapplicable
Date:
DESCRIPTIVE REPORT - DATA RECORD

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>56786</td>
<td>19 Nov. 1957</td>
<td>1430</td>
<td>1:10,000</td>
<td>Inapplicable - too far inland</td>
</tr>
<tr>
<td>56787</td>
<td></td>
<td>1430</td>
<td></td>
<td>too far inland</td>
</tr>
<tr>
<td>56788</td>
<td></td>
<td>1431</td>
<td></td>
<td>for accurate prediction</td>
</tr>
<tr>
<td>56855</td>
<td></td>
<td>1529</td>
<td></td>
<td></td>
</tr>
<tr>
<td>56856</td>
<td></td>
<td>1529</td>
<td></td>
<td></td>
</tr>
<tr>
<td>56857</td>
<td></td>
<td>1530</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tide (III)

Too far inland for accurate prediction

Reference Station: 
Subordinate Station: 
Subordinate Station: 

Washington Office Review by (IV):

Final Drafting by (IV): R. E. Smith (Tampa District Office)
Reviewed by: W. H. Shearouse (Tampa District Office)

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 16
Shoreline (More than 200 meters to opposite shore) (III): 7 lin. mi.
Shoreline (less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II): Inapplicable
Number of Triangulation Stations searched for (II): 9
Number of BMS searched for (II): None
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

* Includes 3 stations west of project limit
FIELD INSPECTION REPORT
Project Ph - 5704
Map T-10940

Please refer to the Field Inspection Report for Map T-10943 for all data pertaining to this map.

Submitted:

Joseph K. Wilson
Joseph K. Wilson
Chief, Photo Party 720
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>331.5 (AGS) 1940</td>
<td>A.G.R. page 48</td>
<td>N.A. 1927</td>
<td>y = 181,510.14 ft</td>
<td>x = 296,858.14 ft</td>
</tr>
<tr>
<td>334.2 (AGS) 1940</td>
<td>n/a</td>
<td>n/a</td>
<td>y = 169,630.70 ft</td>
<td>x = 297,496.25 ft</td>
</tr>
<tr>
<td>331.3 (AGS) 1940</td>
<td>n/a</td>
<td>n/a</td>
<td>y = 180,424.36 ft</td>
<td>x = 281,324.04 ft</td>
</tr>
<tr>
<td>331.2 (AGS) 1940</td>
<td>n/a</td>
<td>n/a</td>
<td>y = 180,427.46 ft</td>
<td>x = 283,716.92 ft</td>
</tr>
<tr>
<td>302.3 (AGS) 1940</td>
<td>AGS page 34</td>
<td>n/a</td>
<td>y = 181,667.54 ft</td>
<td>x = 285,101.32 ft</td>
</tr>
<tr>
<td>Mc Adams 1935</td>
<td>n/a</td>
<td>n/a</td>
<td>y = 177,13.43</td>
<td>x = 289,188.61</td>
</tr>
<tr>
<td>334.3 (AGS)</td>
<td>AGS page 48</td>
<td>n/a</td>
<td>y = 167,828.64</td>
<td>x = 298,939.15</td>
</tr>
<tr>
<td>331.1 (AGS) 1940</td>
<td>n/a</td>
<td>n/a</td>
<td>y = 168,254.17</td>
<td>x = 291,692.68</td>
</tr>
</tbody>
</table>

W of sheet: Do not plot

Factor distance from grid or projection line in meters:

Forward: (BACK)
PHOTOGRAHMETRIC PLOT REPORT

Submitted with T-10928.

31. DELINEATION

The graphic method was used. The field inspection appears to be satisfactory excepting the drainage problem discussed in item 34. The photographs were satisfactory, and single-lens infragon "L" series photographs were furnished to assist in the interpretation of the shoreline.

32. CONTROL

See photogrammetric plot report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

The drainage was delineated by the field inspector, which proved to be "sketched" in the dense swamps. In a number of places throughout the project this sketching was found to be in error, which cast doubt on all such streams. Therefore, only the drainage positively identified by thorough stereoscopic examination has been shown on the map manuscript. Please refer to a letter dated 10 October 1960 on Drainage, Ph-570h, to Chief, Photogrammetry Division from Tampa District Officer, a copy of which is enclosed herewith.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore detail was indicated on the photographs by the field inspector. The field inspection was satisfactory. There were no shoals or mean low-water line indicated. Grass in water was taken from the inspection.

36. OFFSHORE DETAILS

None.
Tampa District Office
P. O. Box 190 Tampa 1 Florida

10 October 1960

To: Chief, Photogrammetry Division
    Coast and Geodetic Survey
    Washington, D. C.

Subject: Drainage - FH-5704 MOBILE BAY

The greater portion of the drainage in subject project consists of narrow fingers of swamp (500-1500 Ft. wide) with a perennial stream meandering through the swamp. The field inspector has complied with project instructions by delineating this drainage on the field photographs. Due to the density of the swamp trees, it is impossible to see the stream beds except for occasional short stretches.

We have carefully examined all the streams under the stereoscope on various office photographs. Comparison with the U. S. Geological Survey quadrangles indicates their drainage delineation to be more accurate than our field party's delineation. (Reference copy of memorandum to Wilson attached). One sample area has been returned to the field party and our conclusions were verified for that one particular stream.

We do not believe the streams warrant the expense of the field party traversing them for accurate location, neither do we believe that they should be mapped unless their position is fairly accurate. It appears that this drainage has been delineated on the field photographs without an adequate check with U.S.G.S. quadrangles and/or actual field investigation even though considerable time was probably spent on this phase of the field work. Considerable time has also been spent studying these discrepancies in the office.

It is suggested that the field parties be informed of a definite policy on how much time should be spent on accurately locating drainage, omitting it entirely, or using P.D.U.

On this project, since the narrow fingers of swamp indicate the drainage pattern fairly well, and the streams can be identified only in short stretches, we are omitting them as a whole.

Survey T-10938 is being scribed and will be forwarded in approximately four (4) weeks. The foregoing discrepancies will be noted on various field photographs for your attention.

It is thought that bringing this matter to your attention might eliminate similar difficulties in future projects.

(signed) William R. Kachel
LOCR, CGS
Tampa District Officer

WAR/o
37. **LANDMARKS AND AIDS**

None.

38. **CONTROL FOR FUTURE SURVEYS**

None

39. **JUNCTIONS**

Junctions were made with T-10941 to the east; T-10942 to the south; T-10938 to the north. This map lies within the northeast quarter of the U. S. G. S. CODEN, ALABAMA quadrangle, which was published under date of 1956 at a scale of 1:24,000. Junction of major details are in very good agreement.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No statement.

46. **COMPARISON WITH EXISTING MAPS**

Comparison was made with USGS Air Photo Copilations T-5353 and T-5353, scale 1:20,000, dated 1934. Differences noted were to be expected due to the passage of time. Comparison was also made with the U. S. G. S. CODEN, ALABAMA quadrangle, which was published under date of 1956 at a scale of 1:24,000. Map details are in very good agreement as to interpretation of culture and vegetation and placement of roads and streams.

47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison with C&GS chart 1266, scale 1:80,000, dated January 1961 and corrected to 11 February 1961. The chart and map compare favorably. One change worthy of note is the abandonment of the railroad running north/south through the area. Parts of this old railroad bed are now utilized as a highway. This map manuscript should supersede the presently charted land details.
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

V. Ralph Sobiersalski
Tampa District Officer

E. T. Ogilby
Cartographer (Photo.)
48. GEOGRAPHIC NAME LIST

Geographic names were taken from the U.S.G.S. CODEN, ALABAMA (1956) quadrangle map.

ALABAMA

BAUMHAUER ROAD

DYKES CREEK

' EAST FOWL RIVER CHURCH

FOWL RIVER (Settlement)

FOWL RIVER

FOWL RIVER ROAD

LAURENDINE

LAURENDINE ROAD

MUDDY CREEK

SOUTH ORCHARD

ST MARGARETS CHURCH

STATE 59

' ZION CHURCH

Names checked &

approved

12-10-65

A. J. Wright
49. NOTES FOR THE HYDROGRAPHER

None.
PHOTOGRAMMETRIC OFFICE REVIEW OF ADVANCE MANUSCRIPT
T-10940


CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy  XX  6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)  XX  7. Photo hydro stations  XX  8. Bench marks  XX

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines  XX  32. Public land lines  XX

MISCELLANEOUS

40. William H. Slaveney

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.

43. Remarks:
Field Edit Report  
(Shoreline)  
Hapt T-10938, T-10939, T-10940 & T-10941  
Project Ph-570h

51. Methods

The shoreline was inspected by truck, skiff, and walking along the beach. The distance to the MEML was spot checked at intervals from points of known location and found to be correct and adequate, except where noted on enclosed osalids copies of the map manuscripts.

Osalid copies of T-10939 and T-10941 are enclosed with this report. Corrections and additions are shown in red ink and deletions in green on the osalid prints.

52. Adequacy of Compilation

The map compilation appears complete and adequate.

53. Map Accuracy

The shoreline of the maps is accurate, except for the changes since photography, as shown on the field edit osalids.

54. Recommendations

There are no recommendations.

55. Examination of Proof Copy

No one was contacted to examine a proof copy of the map.

Submitted: 21 March 1961

Ernest E. Brown, ENR, C&GS  
Photo-Hydro Support Unit 721.
NOTES TO THE WASHINGTON OFFICE REVIEWER

A large number of buildings and short roads noted by the field inspector were omitted. It is our belief that this is in accordance with current instructions. (Please refer to Photogrammetry Instructions No. 54 regarding buildings and the letter of 10 June 1960 from the Chief, Photogrammetry Division regarding short roads.) The field editor was requested to make further investigation and has verified our interpretation.

Tampa
Review Report
Planimetric Maps
T-10936 thru T-10943
December 1965

61. General Statement

Area - The project encompasses Mobile Bay and its approaches.

Purpose - The object of this project is to provide base maps for nautical charting and shoreline and horizontal control data for hydrographic surveys.

62. Comparison with Registered Topographic Surveys

<table>
<thead>
<tr>
<th>T</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-3712</td>
<td>1:40,000</td>
<td>1918</td>
</tr>
<tr>
<td>T-3713</td>
<td>1:40,000</td>
<td>1918</td>
</tr>
<tr>
<td>T-3716</td>
<td>1:10,000</td>
<td>1919</td>
</tr>
<tr>
<td>T-5532</td>
<td>1:20,000</td>
<td>1934</td>
</tr>
<tr>
<td>T-5533</td>
<td>1:20,000</td>
<td>1934</td>
</tr>
</tbody>
</table>

There are cultural and shoreline changes due to the differences in time interval. T-19036 thru T-10943 are to supersede the above surveys of common area.

63. Comparison with Maps of Other Agencies

<table>
<thead>
<tr>
<th>Agency</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theodore</td>
<td>1:24,000</td>
<td>1953</td>
</tr>
<tr>
<td>Hollinger</td>
<td>1:24,000</td>
<td>1953</td>
</tr>
<tr>
<td>Coden</td>
<td>1:24,000</td>
<td>1956</td>
</tr>
<tr>
<td>Bellefontaine</td>
<td>1:24,000</td>
<td>1956</td>
</tr>
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</table>

See Item 46.

64. Comparison with Contemporary Hydrographic Surveys

<table>
<thead>
<tr>
<th>H</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-8573</td>
<td>1:10,000</td>
<td>1961</td>
</tr>
<tr>
<td>H-8575</td>
<td>1:10,000</td>
<td>1961</td>
</tr>
<tr>
<td>H-8561</td>
<td>1:10,000</td>
<td>1961</td>
</tr>
<tr>
<td>H-8587</td>
<td>1:10,000</td>
<td>1961</td>
</tr>
</tbody>
</table>

Shoreline and control of subject surveys was furnished prior to the hydrographic surveys and apparently no differences of importance exist.

65. Comparison with Nautical Charts

<table>
<thead>
<tr>
<th>Item</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1266</td>
<td>1:80,000</td>
<td>1965</td>
</tr>
</tbody>
</table>
Because of the scale difference only a visual comparison was made. No notable differences exist.

66. Adequacy of Results and Future Surveys

These maps comply with the National Map Accuracy Standards and meet Bureau requirements.

Reviewed by:

[Signature]
L.C. Lande

Approved by:

[Signature]
Chief, Photogrammetric Branch

[Signature]
Chief, Nautical Chart Division

[Signature]
Chief, Photogrammetry Division