**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>PLANEIMETRIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>T-10981</td>
</tr>
</tbody>
</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>ALABAMA</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>MOBILE BAY</td>
</tr>
<tr>
<td>Locality</td>
<td>COCHRANE BRIDGE</td>
</tr>
</tbody>
</table>

**1957 - 1961**

**CHIEF OF PARTY**

Joseph K. Wilson, Chief, Photo Party 720
Arthur L. Wardwell, Tampa District Officer

**LIBRARY & ARCHIVES**

**DATE**
DESCRIPTIVE REPORT - DATA RECORD

T-10981

Project No. (II): Ph-570k

Quadrangle Name (IV):

Field Office (II): Fairhope, Alabama

Chief of Party: Joseph K. Wilson

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: Arthur L. Wardwell

Instructions dated (II) (III): (II) 23 June 1958 (Field)

10 Feb. 1959 (Field Suppl. 1)

Copy filed in Division of

Photogrammetry (IV)

(III) 7 April 1959 (Office)

17 August 1959 (Office Suppl. 1)

17 August 1959 (Field Suppl. 2)

9 September 1959 (Stereo Bridging)

6 October 1959 (Office Suppl. 1)

10 November 1959 (Field & Office Suppl. 3)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

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): NAV

Mean-sea-level except as follows:

Elevations shown as (2) refer to mean high water
Elevations shown as (3) refer to sounding datum
I.e., mean low water or mean lower low water

Reference Station (III): COCHRANE, 1935

Lat.: 30°40'19.751" (608.2 m.)

Long.: 87°56'56.640" (1507.8 m.)

Adjusted

Unadjusted

Plane Coordinates (IV): COCHRANE, 1935

State: ALABAMA

Zone: West

X = 358,819.07 Ft.

Y = 244,724.09 Ft.

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.
Areas contoured by various personnel
(Show name within area)
(II) (III)

Inapplicable
DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): W. M. Reynolds  Date: Sept. 1959

Planetable contouring by (II): Inapplicable  Date:

Completion Surveys by (II): W. V. Hull  Date: April 1961

Mean High Water Location (III) (State date and method of location): 19 & 20 November 1957, Date of Air Photo Compilation Photography

Projection and Grids ruled by (IV): J.B.T. (W.O.)  Date: Dec. 1959

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

Control plotted by (III): V. P. Cackowski  Date: Apr. 1960

Control checked by (III): E. T. Ogilby  Date: 8 Apr. 1960

Radial Plot or Stereoscopic Control extension by (III): R. R. Wagner  Date: June 1960

Stereoscopic Instrument compilation (III): Inapplicable  Date:

Planimetry Contours

Manuscript delineated by (III): R. E. Smith  Date: July 1960

of compilation

Photogrammetric Office Review by (III): W. H. Shearouse  Date: Sept. 1960

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

**Camera (kind or source) (III):** C&GS Nine-lens

<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>5688b</td>
<td>19 Nov. 1957</td>
<td>1550</td>
<td>1:10,000</td>
<td>+ 0.7</td>
</tr>
<tr>
<td>56885</td>
<td>19 Nov. 1957</td>
<td>1550</td>
<td>#</td>
<td>+0.7</td>
</tr>
<tr>
<td>56969</td>
<td>20 Nov. 1957</td>
<td>1055</td>
<td>#</td>
<td>-0.3</td>
</tr>
<tr>
<td>56970</td>
<td>20 Nov. 1957</td>
<td>1056</td>
<td>#</td>
<td>-0.3</td>
</tr>
<tr>
<td>56964</td>
<td>20 Nov. 1957</td>
<td>1047</td>
<td>#</td>
<td>-0.3</td>
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</tbody>
</table>

**Tide (III):**

**Diurnal**

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

**Reference Station:** MOBILE, ALA

Final Drafting by (IV): R. Dossett (Tampa District Office)

"Reviewed by: W. H. Shearouse (Tamp. Dist. Off.)"

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

**Land Area (Sq. Statute Miles) (III):** 2

**Shoreline (More than 200 meters to opposite shore) (III):** 19

**Shoreline (less than 200 meters to opposite shore) (II):** Inapplicable

**Control Leveling - Miles (II):** Inapplicable

**Number of Triangulation Stations searched for (II):** 4

**Number of BMs searched for (II):** None

**Number of Recoverable Photo Stations established (II):** 0

**Number of Temporary Photo Hydro Stations established (III):** 0

**Remarks:**
FIELD INSPECTION REPORT
Project Ph-5704
Map T-10981

Please refer to the Field Inspection Report for Map T-10984 for all data pertaining to this map.

Submitted:
OCT 16 1959
Joseph K. Wilson
Chief, Photo Party 720
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR ( \nu )-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cochran 1935</td>
<td>Baldwin Co., Pa.</td>
<td>244.724.09</td>
<td>74592.1</td>
<td>Lost</td>
</tr>
<tr>
<td>569 AGS 1939</td>
<td>Page 21, Baldwin County</td>
<td>246.738.59</td>
<td>75206.1</td>
<td>Recovered</td>
</tr>
<tr>
<td>570 AGS 1939</td>
<td></td>
<td>247.198.00</td>
<td>75346.1</td>
<td>Lost</td>
</tr>
<tr>
<td>182 AGS 1939</td>
<td></td>
<td>244.237.89</td>
<td>74443.9</td>
<td>Lost</td>
</tr>
</tbody>
</table>

**COMPUTED BY:** WWO  
**DATE:** 27 Jan 60  
**CHECKED BY:** 115  
**DATE:** 29 Jan 60

1 FT. = 0.3048006 METER
PHOTOGRAFMETRIC PLOT REPORT

Submitted with T-10928.

31. DELINEATION

The graphic method was used. Photographs were clear and of fair scale. Field inspection was adequate.

32. CONTROL

See photogrammetric plot report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline and alongshore details have been delineated according to field inspection notes. Only the low-water line shown by the field inspector has been delineated. No shoal limits were shown. Shoreline inspection was adequate.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

None.
38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junction has been made with T-10979 on the north; T-10982 on the east; and T-10935 on the west; bounded by water on the south (Mobile Bay).

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U. S. Geological Survey Quadrangle BRIDGEHEAD, ALABAMA, scale 1:24,000 of 1939 revised 1953. Comparison was also made with CGS Planimetric Map No. T-5530, scale 1:20,000, compiled from aerial photographs of 1934. Shoreline and cultural changes noted were to be expected due to the passage of time.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Nautical Chart No. 1266, scale 1:80,000, 15th edition, corrected to July 1960. Similar changes as noted under Item 46 apply here and are normal for the period of time involved.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

Rexford E. Smith, Jr.
Carto Photo Aid

APPROVED & FORWARDED

Arthur L. Wardwell
Tampa District Officer
48. **GEOGRAPHIC NAME LIST**

Geographic names were taken from Nautical Chart No. 1266 and U. S. Geological Survey Quadrangle BRIDGEHEAD, ALABAMA. There are no conflicts. Highway numbers were obtained from the latest available road maps.

ALABAMA
APALACHEE RIVER

BALDWIN COUNTY
BAY JOHN
BIG ISLAND

CHACALOOCHEE BAY
COCHRANE BRIDGE

DUCKER BAY
JUSTINS BAY

MOBILE BAY
MOBILE COUNTY

OLD SPANISH TRAIL
PASS PICADA

SARDINE PASS
STATE 16
STATE 42

TENSAS RIVER

U S 31
U S 90
U S 98

*Names checked & approved*

12-10-65

A. J. Wright
49. NOTES FOR THE HYDROGRAPHER

There were no topographic stations established.
<table>
<thead>
<tr>
<th>COMPIKATION RECORD</th>
<th>COMPLETION DATE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>All planimetry compiled</td>
<td>Sept. 1960</td>
<td>Superseded</td>
</tr>
<tr>
<td>Revised from alongshore field edit.</td>
<td>June 1961</td>
<td></td>
</tr>
<tr>
<td>PROJECTION AND GRIDS</td>
<td>2. TITLE</td>
<td>3. MANUSCRIPT NUMBERS</td>
</tr>
<tr>
<td>----------------------</td>
<td>----------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>WBS</td>
<td>WBS</td>
<td></td>
</tr>
</tbody>
</table>

| 5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY | 6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) |
| WBS                  | XX                   |

| 7. PHOTO HYDRO STATIONS | 8. BENCH MARKS | 9. PLOTING OF SEXTANT FIXES | 10. PHOTOGRAMMETRIC PLOT REPORT |
| XX                    | XX                | XX                     | MNS             |

<table>
<thead>
<tr>
<th>11. DETAIL POINTS</th>
<th>XX</th>
</tr>
</thead>
</table>

| 12. SHORELINE | 13. LOW-WATER LINE | 14. ROCKS, SHOALS, ETC. | 15. BRIDGES |
| XX             | XX              | XX                      | WBS             |

| 16. AIDS TO NAVIGATION | 17. LANDMARKS | 18. OTHER ALONGSHORE PHYSICAL FEATURES |
| XX                    | XX             | WBS                          |

<table>
<thead>
<tr>
<th>19. OTHER ALONGSHORE CULTURAL FEATURES</th>
<th>XX</th>
</tr>
</thead>
</table>

| 20. WATER FEATURES | 21. NATURAL GROUND COVER |
| WBS                  | WBS                     |

| 22. PLANETABLE CONTOURS | 23. STEREOSCOPIC INSTRUMENT CONTOURS |
| XX                     | XX                       |

| 24. CONTOURS IN GENERAL | 25. SPOT ELEVATIONS |
| XX                      | XX                     |

<table>
<thead>
<tr>
<th>26. OTHER PHYSICAL FEATURES</th>
<th>XX</th>
</tr>
</thead>
</table>

| 27. ROADS | 28. BUILDINGS | 29. RAILROADS |
| WBS        | WBS            | XX            |

<table>
<thead>
<tr>
<th>30. OTHER CULTURAL FEATURES</th>
<th>XX</th>
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</thead>
</table>

| 31. BOUNDARY LINES | 32. PUBLIC LAND LINES |
| WBS                | XX                      |

| 33. GEOGRAPHIC NAMES | 34. JUNCTIONS |
| WBS                 | WBS          |

| 35. LEGIBILITY OF THE MANUSCRIPT | 36. DISCREPANCY OVERLAY | 37. DESCRIPTIVE REPORT |
| WBS                 | XX                        | WBS                 |

| 38. FIELD INSPECTION PHOTOGRAPHS | 39. FORMS |
| WBS | WBS |

| 40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT: Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side. |

<table>
<thead>
<tr>
<th>SIGNATURE OF COMPILER</th>
<th>SIGNATURE OF SUPERVISOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>R. Dossett</td>
<td>M. M. Slavney</td>
</tr>
</tbody>
</table>

USE REVERSE SIDE FOR REMARKS
FIELD EDIT REPORT

for T-10961

Please refer to the Descriptive Report submitted for
T-10920.
# TIDE COMPUTATION

**PROJECT NO. Ph-5904-T-1081**

**Time and date of exposure:** 1550 - 19 Nov 1957  
**Reference station:** MOBILE ALA  
**Diurnal Mean-range:** 1.5

**Date of field inspection:** Sept 1957  
**Subordinate station:**

<table>
<thead>
<tr>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
<th>Time</th>
<th>Height</th>
<th>Height x Ratio of ranges</th>
</tr>
</thead>
<tbody>
<tr>
<td>High tide</td>
<td>22 03</td>
<td>1.5</td>
<td>High tide</td>
<td>22 03</td>
<td>1.5</td>
</tr>
<tr>
<td>Low tide</td>
<td>8 33</td>
<td>0.2</td>
<td>Low tide</td>
<td>8 33</td>
<td>0.2</td>
</tr>
<tr>
<td>Duration of rise or fall</td>
<td>13 30</td>
<td>1.7</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Time H. T. or L. T.

<table>
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<tr>
<th>Required time</th>
<th>Interval</th>
<th>Ht. H. T. or L. T.</th>
<th>Tabular correction</th>
<th>Stage of tide above MLW</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 03</td>
<td></td>
<td>1.5</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>15:50</td>
<td>6:13</td>
<td>Feature bares</td>
<td>Stage of tide above MLW</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.8</td>
<td>0.7</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Feature bares</td>
<td>Stage of tide above MLW</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.7</td>
<td>0.7</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Feature bares</td>
<td>Stage of tide above MLW</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.7</td>
<td>0.7</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Feature bares</td>
<td>Stage of tide above MLW</td>
<td></td>
</tr>
<tr>
<td></td>
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<td>0.7</td>
<td>0.7</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Feature bares</td>
<td>Stage of tide above MLW</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.7</td>
<td>0.7</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Feature bares</td>
<td>Stage of tide above MLW</td>
<td></td>
</tr>
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<td></td>
<td></td>
<td>0.7</td>
<td>0.7</td>
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<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>0.7</td>
<td>0.7</td>
<td></td>
</tr>
</tbody>
</table>

**Photo No.:** 56884

Commed by [Signature]  
Checked by [Signature]
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 charts and shoreline and horizontal control data for hydrographic surveys.

62. Comparison with Registered Topographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-5528</td>
<td>1:20,000</td>
<td>1934</td>
</tr>
<tr>
<td>T-5529</td>
<td>1:20,000</td>
<td>1934</td>
</tr>
<tr>
<td>T-5530</td>
<td>1:20,000</td>
<td>1934</td>
</tr>
<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>
</tbody>
</table>

Cultural and shoreline changes have been continuous. These maps are to supersede the above surveys of common area for nautical charting.

63. Comparison with Maps of Other Agencies

<table>
<thead>
<tr>
<th>Agency</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridgehead</td>
<td>1:24,000</td>
<td>1953</td>
</tr>
<tr>
<td>Daphne</td>
<td>1:24,000</td>
<td>1953</td>
</tr>
<tr>
<td>Point Clear</td>
<td>1:24,000</td>
<td>1956</td>
</tr>
<tr>
<td>Weeks Bay</td>
<td>1:62,500</td>
<td>1950</td>
</tr>
</tbody>
</table>

See Item 46.

64. Comparison with Contemporary Hydrographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-8562</td>
<td>1:10,000</td>
<td>1960</td>
</tr>
<tr>
<td>H-8574</td>
<td>1:10,000</td>
<td>1960</td>
</tr>
<tr>
<td>H-8588</td>
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<td>1961</td>
</tr>
<tr>
<td>H-8635</td>
<td>1:10,000</td>
<td>1961</td>
</tr>
<tr>
<td>H-8636</td>
<td>1:10,000</td>
<td>1961</td>
</tr>
<tr>
<td>H-8592</td>
<td>1:10,000</td>
<td>1960</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**

1266 1:80,000 1965

Differences exist; however, these are to be applied immediately.

66. **Adequacy of Results and Future Surveys**

These surveys were prepared according to project instructions and are within the requirement for nautical charting.

Reviewed by

[Signature]

L.C. Lands

Chief, Photogrammetric Branch

Chief, Photogrammetry Division

[Signature]

F.J. Woodcock

Chief, Nautical Chart Division