**U. S. COAST AND GEODETIC SURVEY**

**DEPARTMENT OF COMMERCE**

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>TOPOGRAPHIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td></td>
</tr>
<tr>
<td>Office No.</td>
<td>T-8986</td>
</tr>
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</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>NORTH CAROLINA</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>PAMLICO SOUND</td>
</tr>
<tr>
<td>Locality</td>
<td>MIDDLETOWN</td>
</tr>
</tbody>
</table>

**CHIEF OF PARTY**

E. R. McCarthy, Chief of Field Party
Arthur L. Wardwell, Tampa Photogrammetric Office

**LIBRARY & ARCHIVES**

**DATE**
DATA RECORD

T-8986

Project No. (II): Ph-20(47)  Quadrangle Name (IV):

Photogrammetric Office (III): Tampa, Florida  Officer-in-Charge: Arthur L. Wardwell

Instructions dated (II) (III): 23 July 1948  Copy filed in Division of

Method of Compilation (III): Graphic  Photogrammetry (IV)

Manuscript Scale (III): 1:20,000  Office Files
Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV) DEC 7 1950  Date reported to Nautical Chart Branch (IV) DEC 13 1950

Applied to Chart No.  Date:  Date registered (IV): 5 Feb 1952

Publication Scale (IV):

Geographic Datum (III): N. A. 1927

Publication date (IV):

Vertical Datum (III):

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): ENGLE, 1933

Lat.: 35° 27' 42.027 (1295.2m)  Long.: 75° 59' 50.187 (1265.5m)  Adjusted

Plane Coordinates (IV): Lambert  State: N.C.  Zone:

Y = 636 458.27  X = 2 894 016.43

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.
All contouring by

Elmer L. Williams (II)

Areas contoured by various personnel
(Show name within area)
(II) (III)
Field Inspection by (II): Elmer L. Williams

Date: 22 June 1949

Planetable contouring by (II): Elmer L. Williams

Date: 22 June 1949

Completion Surveys by (III): James E. Hundleby

Date: 24 June 1949

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

Air Photo. Compilation

Date: 29 March 1949

Projection and Grids ruled by (IV): W. O. (T.L.S.)

Date: 21 June 1948

Projection and Grids checked by (IV): W. O. (T.L.S.)

Date: 21 June 1948

Control plotted by (III): B. F. Lampton

Date: 7 October 1948

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

Date: 19 October 1948

Radial Plot on Stereoscopic

Date: 13 April 1950

Stereoscopic Instrument compilation (III):

Planimetry

Inapplicable

Contours

Date:

Manuscript delineated by (III): C. J. Downing

Date: 31 July 1950

Photogrammetric Office Review by (III): R. Dossett - J. A. Giles

Date: 6 October 1950

Elevations on Manuscript checked by (III): C. J. Downing

Date: 30 July 1950
Camera (kind or source) (III): U. S. C. & G. S. 9 lens, 8.25" focal length

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<tbody>
<tr>
<td>22166</td>
<td>29 March 1948</td>
<td>13:18</td>
<td>1:20,000</td>
<td>No periodic tide</td>
</tr>
<tr>
<td>22209</td>
<td>29 March 1948</td>
<td>14:32</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tide (III)

Reference Station:
Subordinate Station:
Subordinate Station:

Washington Office Review by (IV): Everett H. Ramey
Date: 7 Dec 1951

Final Drafting by (IV):
Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 2.0
Shoreline (More than 200 meters to opposite shore) (III): 4.0
Shoreline (Less than 200 meters to opposite shore) (III): 0.8
Control Leveling - Miles (II): 22.2
Number of Triangulation Stations searched for (II): 3
Number of BMS searched for (II): 0
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): None

Remarks: *The periodic tide is negligible.*

Form T-Page 4
SUMMARY TO ACCOMPANY MAP T-8986

Topographic map T-8986 is one of 32 similar maps of Project Ph-20(47) and is located in the eastern part of the project. It covers Middletown Anchorage in Pamlico Sound and the adjacent land area.

Project Ph-20(47) is a graphic compilation project. Operations which preceded compilation included complete field inspection, the recovery and identification of horizontal control, and the mapping of topography on the photographs by planetable methods.

The map manuscript was compiled at a scale of 1:20,000 and covers 7½° in latitude by 7½° in longitude. The entire map was field edited. After the addition of hydrographic data by the Division of Charts the map will be published by the Geological Survey as a standard topographic quadrangle.

Items registered under T-8986 will include a cloth-mounted lithographic print of the map manuscript at a scale of 1:20,000, a cloth-mounted color print at a scale of 1:24,000 and the descriptive report.
SEE DESCRIPTIVE REPORT
COVERING QUADRANGLE T-8985
FOR THE FIELD INSPECTION OF
QUADRANGLE T-8986
Photogrammetric Plot Report

This report covers the plot for maps T-8973 to T-8976 inclusive, T-8984 to T-8986 inclusive, T-8993 and T-8994, and is filed as part of the descriptive report for T-8974.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR ( n )-COORDINATE</th>
<th>LONGITUDE OR ( s )-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>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLE, 1933</td>
<td>G.P.s 396</td>
<td>N.A. 1927</td>
<td>35 27 42.027</td>
<td>75 59 50.187</td>
<td>1295.2(553.9)</td>
<td></td>
<td>1265.5(247.4)</td>
<td></td>
</tr>
<tr>
<td>GIBBS SHOAL</td>
<td>G.P.s</td>
<td>&quot;</td>
<td>35 27 28.467</td>
<td>75 55 44.565</td>
<td>877.3(971.8)</td>
<td></td>
<td>1123.8(389.2)</td>
<td></td>
</tr>
<tr>
<td>BEACON, 1933</td>
<td>395</td>
<td>&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
COMPILATION REPORT, T-8986

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-8974  See Descriptive Report for T-8974

31. Delineation.

Compiled by graphic methods. No unusual method of compilation was employed.

32. Control.

Horizontal control was adequate. Identification, density, and placement were satisfactory.

33. Supplemental Data.

None

34. Contours and Drainage.

There is only one short carrying contour in this quadrangle. Drainage was readily identified on the photographs. Only the lead ditches have been shown.

35. Shoreline and Alongshore Details.

The shoreline inspection was adequate. No low water line or shoals have been delineated. Reference Item 7, Des. Report for T-8985.

36. Offshore Details.

None.

37. Landmarks and Aids.

No unusual methods of compilation employed.
38. **CONTROL FOR FUTURE SURVEYS.**

One recoverable topographic station is being submitted on Form 524, with this report. This station has been listed under Item 49.

*Filed in the Div. of Photogrammetry.*

39. **JUNCTIONS.**

Survey T-8975 on the north, in agreement.
Pamlico Sound on the south.
Pamlico sound on the east.
Survey T-8985 on the west, in agreement.

40. **HORIZONTAL AND VERTICAL ACCURACY.**

No statement required. See item 53

46. **COMPARISON WITH EXISTING MAPS.**

None available for comparison See item 62

47. **COMPARISON WITH NAUTICAL CHARTS.**

Comparison was made with Nautical Chart No. 1231, scale of 1:80,000, publication date, November 1938, corrected to 23 December 1949. No discrepancies were noted. See item 65

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.**

None.

**ITEMS TO BE CARRIED FORWARD.**

None.

Approved and Forwarded

Arthur L. Wardwell
Chief of Party
48. GEOGRAPHIC NAME LIST.

BACK CREEK
BURRUS CREEK
CEDAR CREEK
*GIBBS SHOAL
*GULL SHOAL

HYDE COUNTY

LAKE LANDING TOWNSHIP
LONE TREE CREEK
MIDDLETOWN ANCHORAGE
MIDDLETOWN CREEK
NORTH CAROLINA
OYSTER CREEK
PACIFIC SOUND

*Feature was not shown because its position and limits could not be determined from the photographs.

Names approved,
subject to F.E.
12-19-50
a.j.w.
49. **NOTES FOR THE HYDROGRAPHER.**

The following topographic station may be useful to the hydrographer:

**GUMP, 1949.**

Note that "GIBBS SHOAL" and "GULL SHOAL" have not been shown on the map manuscript; it was impossible to determine their limits from the photographs.
FIELD EDIT REPORT  
Project Ph-20(47)  
Quadrangle T-8986  

Harry F. Gerber, Chief of Party

51. METHODS

The field edit of this area was accomplished by traversing, via truck, all roads and walking to other areas for a general check on the adequacy of the map compilation.

Corrections and additions were made by visual inspection.

All corrections, additions and deletions have been shown on the field edit sheet.

The reviewer's questions are answered on the discrepancy print.

A legend appears on the field edit sheet which is self-explanatory.

The actual field work was accomplished 20 June 1951.

52. ADEQUACY OF COMPILATION

The map compilation is adequate and will be complete after field edit data has been applied. See Item 66

53. MAP ACCURACY

The horizontal accuracy of the map detail is relatively good. See Item 66

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

It is believed that Mr. John L. Mann, of New Holland, N. C. is best qualified to examine a proof copy of this work.

56. CONTOURS AND DRAINAGE

Ref. to item 34 - Compilation Report.

There are no contours in this area. See Item 67
57. OTHER INTERIOR FEATURES

Ref. to item 15 - Field Inspection Report, T-3985.

Reclassification, where necessary, and limits of the woodland cover, have been shown on the field edit sheet.

58. JUNCTIONS

Satisfactory junctions have been made with T-3975 to the north, and T-3985 to the west.

28 June 1951
Submitted by:

James E. Hundley
Cartographer

17 July 1951
Approved by:

Harry F. Garber
Commander, USCG&GS
Chief of Party
PHOTOGRAMMETRIC OFFICE REVIEW
T. 8986


CONTROL STATIONS

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines JG

MISCELLANEOUS
40. Jesse A. Giles JG 41. Supervisory, Review Section or Unit

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:
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks, be charted on the charts indicated.

The positions given have been checked after listing by Charles J. Downing

Tampa Photogrammetric Office

E. R. McCarthy

Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Carolina</td>
<td>Gibbs Shoal: Black slatted pile structure</td>
<td>35 27</td>
<td>877.3</td>
<td>75 55</td>
<td>123.8</td>
<td>HA</td>
</tr>
<tr>
<td>North Carolina</td>
<td>Gull Shoal: White skeleton tower, on brown piles</td>
<td>35 21</td>
<td>1783.7</td>
<td>75 57</td>
<td>724.8</td>
<td>&quot;</td>
</tr>
</tbody>
</table>

* Position beyond limits of map

**L118 (1950)**

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
REVIEW REPORT
Topographic Map T-8986
7 December 1951

62. Comparison with Registered Topographic Surveys:

1384b 1:20,000 1874-75

A small marsh island at the mouth of Middletown Creek no longer exists. Otherwise no significant changes were noted.

Map T-8986 supersedes the above survey for nautical charting purposes for common areas.

63. Comparison with Maps of Other Agencies: None

64. Comparison with Contemporary Hydrographic Surveys: None

65. Comparison with Nautical Charts:

1231 1:80,000 50-2/20
1232 1:80,000 51-2/19

66. Adequacy of Results and Future Surveys:

This map meets the National Standards of Map Accuracy and complies with project instructions.

67. Contours and Drainage:

Reference item 56. A short carrying contour with top elevation of 7 feet is shown at latitude 35°29.1' and longitude 75°59.4' to depict a spoil bank along a ditch.

Submitted by:

Everett H. Ramsey

Approved by:

S. V. Griffith 3/16/52
Chief, Review Section
Division of Photogrammetry

H. Edmonston
Chief, Nautical Chart Branch
Division of Charts

Earl D. Scofield
Chief, Div. Photogrammetry

Earl D. Scofield
Chief, Div. Coastal Surveys
History of Hydrographic Information
T-8986

Middletown Anchorage - Pamlico Sound, N. C.

Hydrography was applied to the map manuscript in accordance with the general specifications of 18 May 1949.

Depth curves and soundings are in feet at Mean Low Water and originate with the following surveys:

C&GS Hydrographic Survey H 672 (1858) 1:40,000
" " " H 1254 (1875) 1:20,000
" " " H 1362a (1875-76) 1:20,000
" " " H 1363a (1875-76-77) 1:40,000

Depth curves are shown at 6, 12, and 18 feet.

Depth curves and soundings were compiled by K. N. Maki and verified by R. E. Elkins.

K. N. Maki
7 January 1951
NAUTICAL CHARTS BRANCH

SURVEY NO. 8986

Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<tr>
<td>6-24-54</td>
<td>1036</td>
<td>C. Wilson</td>
<td>Before After</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Verification and Review</td>
</tr>
</tbody>
</table>

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

Before After Verification and Review

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.