**Type of Survey** Topographic

**Field No.** Ph-61(4)9 **Office No.** T-9838

**LOCALITY**

**State** North Carolina

**General locality** Albemarle Sound

**Locality** Scuppernong River

1951-54

**CHIEF OF PARTY**

H.F. Garber, Chief of Field Party

J.E. Waugh, Tampa Photogrammetric Off.

**LIBRARY & ARCHIVES**

**DATE** January 9, 1958
DATA RECORD

T - 9838

Project No. (II): Ph-61(49)    Quadrangle Name (IV):

Field Office (II): Edenton, North Carolina    Chief of Party: Harry F. Garber

Photogrammetric Office (III): Tampa, Florida    Officer-in-Charge: J. E. Waugh

Instructions dated (II) (III): 15 June 1951    Copy filed in Division of Photogrammetry (IV)

Offices Files

Method of Compilation (III): Graphic

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

Scale Factor (III): None

Date received in Washington Office (IV): MAR 20 1952

Date reported to Nautical Chart Branch (IV): APR 6 1953

Date registered (IV): 25 April 1957

Applied to Chart No. Publication Scale (IV):

Publication date (IV):

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

Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (1) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): SG 25, 1951 (E. of map limits)

Lat.: Adjusted

Long.: Unadjusted

Plane Coordinates (IV):

State: N. C. Zone:

\[ y = 767,218.29 \quad x = 2,829,504.92 \]

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.
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<th>35°-52'30&quot;</th>
<th>35°45'</th>
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<td>John R. Smith, Carto. Surv. Aid</td>
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</table>

Areas contoured by various personnel
(Show name within area)

(II) #14
DATA RECORD

Field Inspection by (II): \text{John R. Smith, Carto. Surv. Aid} \hspace{1in} \text{Date: Oct. & Nov., 1951}

Planetable contouring by (II): \text{John R. Smith, Carto. Surv. Aid} \hspace{1in} \text{Date: Oct. & Nov., 1951}

Completion Surveys by (II): \text{James E. Hambly} \hspace{1in} \text{Date: April 1954}

Mean High Water Location (III) (State date and method of location): \text{Inshore quadrangle}

Projection and Grids ruled by (IV): \text{J. A. (W.O.)} \hspace{1in} \text{Date: 25 Jan. 1952}

Projection and Grids checked by (IV): \text{H. D. Woolf (W.O.)} \hspace{1in} \text{Date: 28 Jan. 1952}

Control plotted by (III): \text{R. E. Smith, Jr.} \hspace{1in} \text{Date: 31 Mar. 1952}

Control checked by (III): \text{I. I. Saperstein} \hspace{1in} \text{Date: 1 Apr. 1952}

Radial Plot \text{ entrusted by (III): M. M. Slavney} \hspace{1in} \text{Date: 22 May 1952}

Stereoscopic Instrument compilation (III): \text{Imapplicable} \hspace{1in} \text{Date:}

Contours \hspace{1in} \text{Date:}

Manuscript delineated by (III): \text{C. J. Downing}
\text{R. A. Reece} \hspace{1in} \text{Date: August 1952}
\text{21 Dec. 1952}

Photogrammetric Office Review by (III): \text{J. A. Giles} \hspace{1in} \text{Date: 22 Jan. 1953}

Elevations on Manuscript checked by (III): \text{J. A. Giles} \hspace{1in} \text{Date: 10 Nov. 1952}
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<tr>
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<td>12:38</td>
<td>1:20,000</td>
<td>No tide</td>
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<tr>
<td>33196</td>
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</table>

**Tide (III)**

Reference Station: [No tide (inshore)]

Subordinate Station: [No tide (inshore)]

Subordinate Station: [No tide (inshore)]

Washington Office Review by (IV): **Everett H. Ramey**

Final Drafting by (IV): **F. Johnson**

Drafting verified for reproduction by (IV): [Date: 8 Dec 1954]

Proof Edit by (IV): [Date: 10-18-55]

Land Area (Sq. Statute Miles) (III): 60.5 mi.

Choice of Bases of Opposite shore): none

Shoreline (Less than 200 meters to opposite shore) (III): 3.8 mi.

Control Leveling - Miles (II): 15 miles of fly levels.

Number of Triangulation Stations searched for (II): 0  
Recovered: 0  
Identified: 0

Number of BMs searched for (II): 0  
Recovered: 0  
Identified: 0

Number of Recoverable Photo Stations established (III): 0

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

Remarks:
Summary to Accompany Topographic Map T-9838

Topographic map T-9838 is one of eleven similar maps of Project Ph-61(49). It covers a small portion of the Scuppernong River and some land area to the southeastward, within Tyrrell and Washington Counties.

Project Ph-61(49) is a graphic compilation project. Field work in advance of compilation included the establishment of additional control, complete field inspection, the delineation of 5-foot contours directly on the photographs by plane-table methods, and the investigation of civil boundaries and geographic names.

Map T-9838 was compiled at a scale of 1:20,000 using nine-lens photographs taken in 1951. The map was field-edited. With the addition of hydrographic information the map will be published by the Geological Survey as a standard topographic quadrangle map.

Items registered under T-9838 will include a descriptive report, a copy at 1:20,000 scale of the map manuscript and a copy of the published map.
2. AREAL FIELD INSPECTION

There are no towns or villages within the quadrangle. Only the northeasterly and westerly parts have been cultivated and are now accessible by road. The remainder of the area is undeveloped.

The area, in general, is relatively flat with very little change in elevation. The high ground has been cleared for cultivation.

In the southeastern part of the quadrangle, dismantled tram lines give evidence of logging operations in the past. These, however, have grown over with reeds and can now be traveled only on foot with great difficulty.

The quality of the photographs is good and no great difficulty was encountered in their interpretation. Field inspection is believed to be adequate and complete with sufficient notes to aid the compiler in the delineation of the detail.

2. HORIZONTAL CONTROL

There are no horizontal control stations within this quadrangle. The horizontal control on the flight line east of this quadrangle was identified in Project Ph-45(49). These control points were transferred from the field photographs of Ph-45 to the photographs of Ph-61.

See special report submitted with Quadrangle T-9839.

(a) There are no bench marks within the limits of this quadrangle.

(b) To provide a base for planetable contouring, fifteen (15) miles of supplemental levels were run with a Wye level along the principal roads and elevations established at identifiable picture points. All fly level lines began and ended on fly level points established in other quadrangles. Errors of closure were negligible.
(c) The first and last fly level points are 38-01 and 38-26.

In addition to the fly level points listed above, the following fly level points previously established for use in Project Ph-45(49) were used: 73-45 to 73-52, inclusive.

5. CONTOURS AND DRAINAGE

Contouring was accomplished by standard planetable survey methods directly on nine-lens photographs (1:20,000 scale) at contour intervals of five (5) feet.

The highest elevation recorded within the area was seventeen (17) feet in the northeasterly portions.

Due to the lack of roads and dense underbrush, which predominates throughout the area, contouring progress was slow. All planetable lines to locate contours in the wooded areas necessitated clearing the entire length of the line. In places where it was nearly impossible to locate the contours by planetable methods, they were sketched on the photographs, with stereoscopic aid, and indicated by dashed lines. (See Director's letter, dated 29 November 1951, a copy of which is attached to this report.)

No large errors of closure were encountered during planetable contouring.

Drainage in the northwesterly part of the quadrangle is by canals and ditches, thence to the Scuppernong River. All other drainage is by seepage.

6. WOODLAND COVER

The cover was classified in accordance with the Topographic Manual.

The vegetation on the high ground is composed chiefly of pine, gum, bay and reeds, with gum, bay and cypress in the lowlands and swamp areas.

7. SHORELINE AND ALONGSHORE FEATURES

Inapplicable.

8. OFFSHORE FEATURES

Inapplicable.
9. LANDMARKS AND AIDS

There are no landmarks or Aids to Navigation within the area.

10. BOUNDARIES, MONUMENTS AND LINES

This will be the subject of a special report* to be submitted at a later date by Mr. James E. Hundle, Cartographer.

* Filed under project data, Division of Photogrammetry.

11. OTHER CONTROL

There is no control within this quadrangle. Sec 53

12. OTHER INTERIOR FEATURES

All roads and buildings have been classified in accordance with the Topographic Manual.

There are no bridges over navigable waters; cable crossings, landing fields, or Aeronautical Aids within the area.

13. GEOGRAPHIC NAMES

This is the subject of a special report* submitted by Mr. James C. Oregan, Cartographic Survey Aid, dated October, 1951.

* Filed in Geographic Names Section, Div. of Charts.

14 December 1951
Submitted by:

John R. Smith,
Cartographic Survey Aid

27 December 1951
Approved by:

Allen L. Powell
Harry F. Garber
Commander, USCG
Chief of Party
<table>
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR $\nu$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
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<td>N.A. 1927</td>
<td>773,394.58</td>
<td>3,394.58 (6,605.12)</td>
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|         |                  |       | 2,778,586.85 | 8,586.85 (1,413.15) | Unmonumented station - less than third-order accuracy. 

**Notes:**
- The distances are given in both feet and meters.
- The datum is N.A. 1927.
- The coordinates are given in NAD 1927.

**Computed by:** I. I. Saperstein  
**Date:** 14 March 1952  
**Checked by:** R. J. Pate  
**Date:** 21 March 1952
To: Cosdr. Harry F. Garber  
U. S. Coast & Geodetic Survey  
Box 271  
Edenton, North Carolina  

Subject: Contours on Project Ph-61

This is in reply to your letter of 23 November asking for information about the extent of contouring required in areas difficult of access in quadrangles T-9838 and T-9842.

It is not desirable to spend much money contouring areas where the cost is great and the value of the contours is small such as the area you outline on the sketch accompanying your letter. You should sketch the contours through these areas using the symbol for approximate contours to delineate the contours on the photographs.

/s/ Robert W. Knox  
Acting Director
Technical Assistant to Chief
Division of Photogrammetry

12 June 1952

H. R. Gravat

Reshaping Contours - Project Rh-61 - North Carolina

The field record for Project Rh-61 - Albemarle Sound, North Carolina, were examined early in 1952 by Mr. Hanavich. As a result of this examination it was decided to reshape some of the contours in the Washington Office. (Ref. letters 73-mkl dated 8 February and 22 April 1952, signed Chief, Division of Photogrammetry)

In selecting photographs for contour reshaping, Mr. Hanavich's report has been relied upon completely. Only those photographs mentioned in his report, Nos. 33138 thru 33141, 33151, 33152A, 33169 and 33170 were considered for reshaping.

Methods used:

Prior to reshaping the contours, each photograph was examined stereoscopically to determine whether or not the contours followed the shape of the land. This examination was not profitable in that the relief is generally smooth and not conducive to good stereopsis. A few omitted drains were found, however.

In my opinion the contours probably are of satisfactory accuracy, but lack the necessary professional appearance. Wherever practicable this situation was remedied by resketching the contours on acetate overlays that were taped to the appropriate photographs.

Brief notes on the individual photographs follows:

Photographs Nos. 33140 and 33141

The contours appear too stiff and have a jagged pinched appearance. The tension in the contours was relieved by smoothing the contours and by dropping the bottom contour and raising the top contour less than 0.5 mm.

Special notes are added to the overlays wherever verification by the field editor will be required.

Photographs Nos. 33152A, 33169 and 33170

Contours on these photographs were smoothed out and harmonized by sketching contours more nearly parallel.
COMPILATION REPORT T-9838

PHOTOGRAMMETRIC PLOT REPORT.

This report submitted with T-9834.

31. DELINEATION.

Compiled by graphic methods. No unusual methods used.

32. CONTROL.

A sufficient number of well placed pass points were established for cutting in detail points.

33. SUPPLEMENTAL DATA.

None used.

34. CONTOURS AND DRAINAGE.

Pursuant to the recommendation made in a report on "Reshaping Contours" (12 June 1952) by Mr. H. R. Cravat, addressed to the Technical Assistant to the Chief, Division of Photogrammetry, (copy attached) all contours have been "delineated as surveyed (solid line, not dashed)."

Drainage was readily interpreted from the field photographs.

35. SHORELINE AND ALONGSHORE DETAILS.

No statement required. Inapplicable. Small segment of Scuppernong River is without shoreline structures.

36. OFFSHORE DETAILS.

No statement required. Inapplicable.

37. LANDMARKS AND AIDS.

None.
38. CONTROL FOR FUTURE SURVEYS.

Reference Item 11.

39. JUNCTIONS.

Satisfactory junction with T-9154 on the north, Proj. Ph-45(49).
Satisfactory junction with T-9273 on the east,
Satisfactory junction with T-9842 on the south,
Quadrangle T-9837 to the west.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement required. See §41

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with U. S. G. of E. Quadrangle COLUMBIA,
N. C., scale 1:125,000, dated 1943. Agreement was fair.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Nautical Chart 1228, scale
1:80,000, dated May 1937, corrected to 2 November 1950, which
covers about two square miles of the northwestern part of the
quadrangle. All details shown are in good agreement. See §45

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

[Signatures]

APPROVED AND forwarded:

[Signatures]

J. E. Waugh, Chief of Party
GEOGRAPHIC NAME LIST.

BALLAST BANK
BEE TREE CANAL
BOYD ROAD
BONARVA CANAL
CABIN SWAMP CHURCH
COLUMBIA TOWNSHIP
CROSS LANDING CHURCH
GUM NECK TOWNSHIP
HOLLY GROVE CHURCH

* JUNI/FER CREEK (is shown on T-9272: name OK)

NEW LANDS
NEW LANDS ROAD
NORTH CAROLINA

OLD CANAL
SCUFFERNONG RIVER
SCUFFERNONG TOWNSHIP
SOUTH FORK TOWNSHIP

THIRTY FOOT CANAL
TYRRELL COUNTY
WASHINGTON COUNTY
WOODLEYS CHAPEL

* Feature could not be seen on photographs so is not shown on map manuscript.

Names approved 8-6-53
on basis of project names report.

L. Heek
49. NOTES FOR THE HYDROGRAPHER.

None.
51. METHODS

The field edit of this area was accomplished by standard surveying methods in conjunction with visual inspection. Actual field work was completed in April 1954.

Field edit corrections have been shown on the field edit sheet, field photographs 33196, 33197, 33201, and in this report.

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

52. ADEQUACY OF COMPILATION

The map compilation is adequate and will be complete after the field edit revisions have been applied. \textit{See }§66

53. MAP ACCURACY

The horizontal accuracy of the map detail is relatively good. \textit{See }§66

The accuracy of the contouring, in general, is good.

Minor contour corrections were made in three separate areas of the map. These corrections are shown on field photographs 33196, 33197 and 33201.

54. RECOMMENDATIONS

Recommend that item "55 - Examination of Proof Copy" of this report be discontinued for the following reason: It is believed that the field editor does a more thorough job of checking the accuracy of compilation of any area than some uninterested individual.

55. See item "54" of this report.

56. DRAINAGE

Refer to item "5 - Field Inspection Report".

Numerous "inlet" and "feeder" ditches have been deleted from the field edit sheet.

57. OTHER INFERIOR FEATURES

Refer to item "12 - Field Inspection Report".

Reclassification of roads and buildings has been made where justifiable, and shown on the field edit sheet.

Additional buildings have been shown on the field edit sheet.
58. JUNCTIONS

Satisfactory junctions have been made with all adjacent contemporary quadrangles.

Respectfully submitted
21 May 1954

James E. Hundley
Cartographer

Approved
E. H. Kirsch
Comdr. USGS
Officer in Charge

I believe that a strong effort should be made to find one or more residents in the area who are intimately acquainted with the area, and who are interested and qualified, to examine a proof copy for errors.

E. H. Kirsch
PHOTOGRAMMETRIC OFFICE REVIEW
T. 9836


CONTROL STATIONS

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

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

MISCELLANEOUS

40. Jesse A. Giles
Reviewer
William A. Rasure
Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
by Tampa 5-12

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:

N-2623-12
62. Comparison with Registered Topographic Surveys - None

63. Comparison with Maps of Other Agencies:

Columbia, N.C. (C. of E. Quad) 1:125,000 1943

A visual comparison reveals only minor differences.

64. Comparison with Contemporary Hydrographic Surveys - None

65. Comparison with Nautical Charts

1228 1:80,000 1937 corrected to 53-5/11

Some differences in drainage exist but generally there is agreement on other features.

66. Adequacy of Results and Future Surveys

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

Reviewed by:

Everett H. Ramsey

Approved by:

L.C. Landy  Chief, Review Branch
Division of Photogrammetry

Will Swanson  Chief, Division of Photogrammetry
12 Dec 1957

Chief, Nautical Chart Branch
Division of Charts
NAUTICAL CHARTS BRANCH

SURVEY NO. 9838

Record of Application to Charts

<table>
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<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<td>Knoop</td>
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</table>

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.