

8977

Diag. Cht. Nos. 537 & 1110

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Ph-20(17) Office No. T-8977

LOCALITY

State NORTH CAROLINA

General locality PAMLICO RIVER

Locality SOUTH OF CHOCOWINITY

1945
51

CHIEF OF PARTY

E.R. McCarthy, Chief of Field Party.

A.L. Wardwell, Tampa Photogrammetric Office.

LIBRARY & ARCHIVES

DATE August 14, 1953

21268

DATA RECORD

Page 1

T-8977

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

Field Office (II): Washington, North Carolina

Chief of Party: E. R. McCarthy

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: Arthur L. Wardwell

Instructions dated (II) (III): 23 July 1948

Copy filed in Division of
Photogrammetry (IV)
Office 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): 2-2-51

Date reported to Nautical Chart Branch (IV): 9 Feb 1951

Applied to Chart No.

Date:

Date registered (IV): 7-24-53

Publication Scale (IV): 1:24,000

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): RICE - 1935

Lat.: 35° 29' 46.118 (1421.3m) Long.: 77° 02' 13.983 (352.4m)

Adjusted
~~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.

All Contouring done by-

W . P. Massie
Cartographic Survey Aid

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

DATA RECORD

Page 3

Field Inspection by (II): Walter P. Massie
Cartographic Survey Aid

Date: 3-29-49-
9-21-49

Planetable contouring by (II): Walter P. Massie
Cartographic Survey Aid

Date: 3-29-49-
9-21-49

Completion Surveys by (II): James E. Hundley

Date: 13 April 1951
thru 25 May 1951

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

29 March 1948 Air Photographic compilation

Projection and Grids ruled by (IV): W.E.W. (W.O.)

Date: 30 June 1948

Projection and Grids checked by (IV): W.E.W. (W. O.)

Date: 30 June 1948

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

Date: 22 September 1948

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

Date: 24 September 1948

Radial Plot ~~of stereoscopic~~

~~Control checked~~ by (III): M. M. Slavney

Date: 16 December 1949.

Stereoscopic Instrument compilation (III):
Planimetry Inapplicable

Date: _____

Contours Inapplicable

Date: _____

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

Date: November 1950

Photogrammetric Office Review by (III): R. Dossett, I.I. Saperstein, J. A. Giles

Date: November 1950

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

Date: 20 September 1950

Camera (kind or source) (III): U. S. Coast and Geodetic Survey, Nine-lens
8 $\frac{1}{4}$ " focal length.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
22182	3-29-48	13.38	1:20,000	No periodic tide
22227	3-29-48	15.20	"	"
22228	3-29-48	15.21	"	"
22340	3-30-48	clock stopped	"	"

Tide (III)

Reference Station: No periodic tide
Subordinate Station:
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV): K. N. Maki

Date: 11 April 1952

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 58

Shoreline (More than 200 meters to opposite shore) (III): 3 miles

Shoreline (Less than 200 meters to opposite shore) (III): 1 mile

Control Leveling - Miles (II): 52.7

Number of Triangulation Stations searched for (II): 13

Recovered: 12

Identified: 5

Number of BMs searched for (II): 15

Recovered: 15

Identified: 15

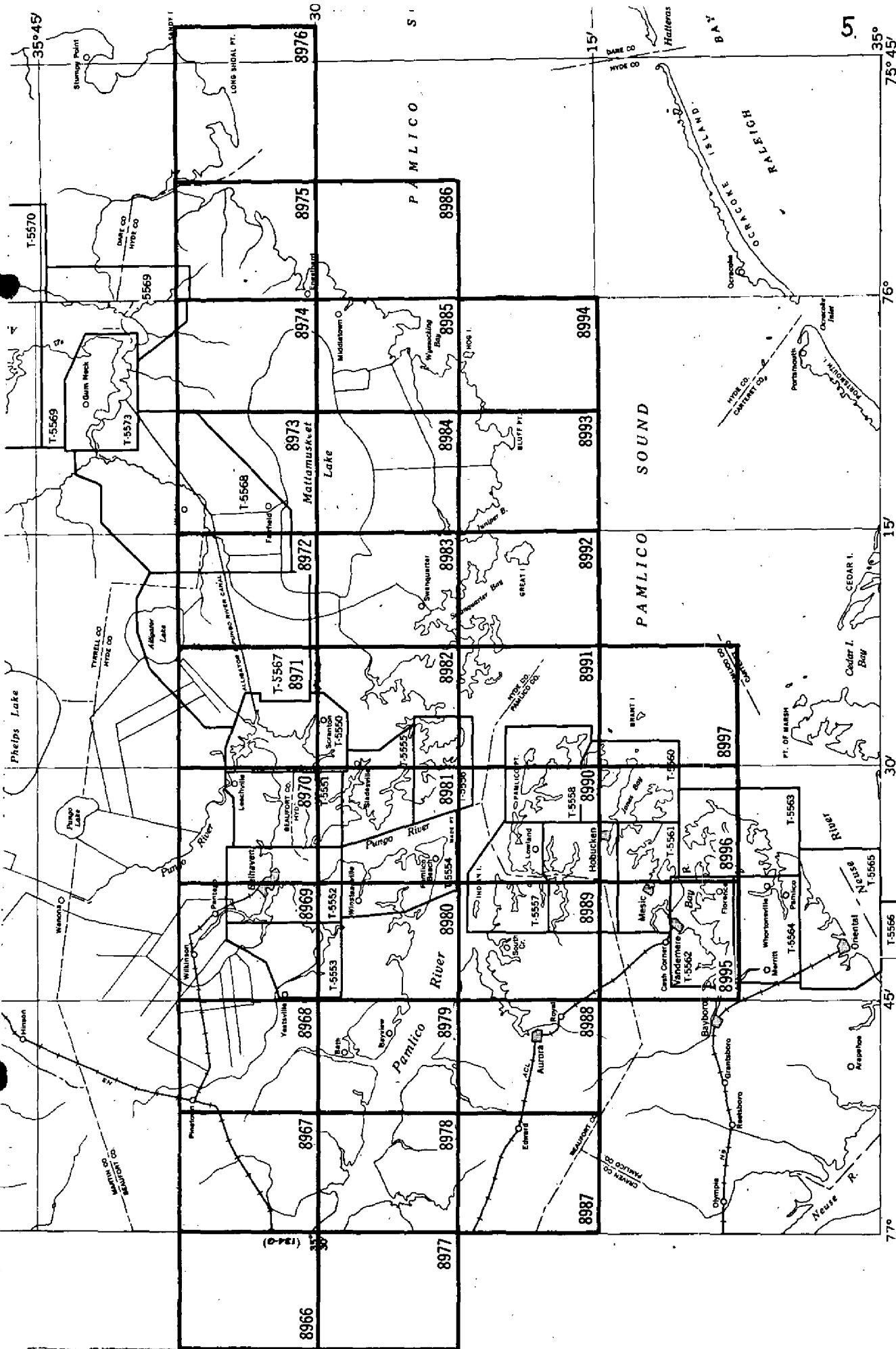
Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

PH-20(43)

NORTH CAROLINA, Vicinity of Pamlico River



SUMMARY TO ACCOMPANY T-8977

Topographic map T-8977 is one of a series of 32 maps in project Ph-20(47). The field operations included complete field inspection and planetable contouring on 1:20000 scale nine-lens photos. The manuscript was graphically compiled and completely field edited.

This map is to be published by the U. S. Geological Survey at a scale of 1:24,000 as a standard 7½ minute quadrangle. The registered copies under T-8977 to be filed in the Bureau Archives will include the original descriptive report, a cloth-mounted print of the manuscript at a scale of 1:20,000 and a cloth-mounted print of the published map at a scale of 1:24,000.

FIELD INSPECTION REPORT
 Quadrangle T-8977
 35-22.5/77-00/7.5
 Project Ph-20(47)

E. R. McCarthy, Chief of Party

The field work for this quadrangle was done in accordance with the Director's Instructions, Project Ph-20(47), Field, dated 23 July, 1948, and other instructions as noted herein. The field work was accomplished by the following personnel:

<u>Name and Title</u>	<u>Phase</u>	<u>Date</u>
M. A. Stewart Cart. Sur. Aid	Third Order Levels	Sept. 9, 1947 - Oct. 30, 1947.
E. T. Ogilby Cart. Sur. Aid	Horizontal Control Recovery	April, 1949 - May, 1949.
W. P. Massey Cart. Sur. Aid	Field Inspection Fly levels Contours	March 28, 1949 to Sept. 21, 1949

This report is written in accordance with Paragraph 724, of the preliminary edition of the Topographic Manual dated June, 1949.

2. AREAL FIELD INSPECTION

One third of the area is under cultivation, one third pocosin or highland swamp, and one third heavily wooded. Farming is the chief occupation.

The area is relatively high land intersected by numerous steep sided streams or creeks which flow toward Chocowinity Bay and the Pamlico River, which cut the Northeast corner of the quad.

The north boundary of the quad is about one and one-half (1.5) miles south of the village of Chocowinity.

There are no towns or villages within the quad limits. U.S. Highway #17 runs close by and parallel to the west boundary, and N.C. Highway #33 runs NW-SE through the eastern half. The Norfolk Southern Railroad runs parallel to and west of

Highway #17. The Washington-Vandemere Branch of the Atlantic Coast Line runs parallel and north of N. C. Highway #33, crossing it about one mile west of the east boundary.

The photographs were clear. No difficulty was encountered in interpretation.

The field inspection is believed to be complete.

3. HORIZONTAL CONTROL

There was very little control within the limits of the quad, which could be used to advantage on the radial plot. Stations C of E Mon 34, 1942 and C of E Mon 35, 1942, which were west of the project limits; C of E Mon 38, 1942 and C of E Mon 39, 1942, which were southwest; VANCE, 1931, which was south and CHOCOWINITY, 1931, which was about on the west limit were identified on the photographs in order to provide adequate control. The pricking cards for these stations were forwarded to the Tampa office on 12 May, 1949.

(a) Control by other Agencies.

C of E Mon 34, 1942	Third order
C of E Mon 35, 1942	"
C of E Mon 38, 1942	"
C of E Mon 39, 1942	"
CREEK (USE), 1914	"
FORK (USE), 1914	"

(e) Stations Lost.

FORK POINT LIGHT, 1935

Stations Not Identified.

RICE, 1935	CHALK, 1933
FORK (USE), 1914	CREEK (USE), 1914.
CALF, 1935	

None of the above stations were needed for the radial plot. All were difficult and some impractical to identify.

4. VERTICAL CONTROL

(a) Bench marks third order and above.

First order bench marks USC&GS

D-26, 1932	F-26, 1932
E-26, 1932	

Third order bench marks USC&GS

L-242, 1947	R-242, 1947
M-242, 1947	S-242, 1947
N-242, 1947	T-242, 1947
P-242, 1947	U-242, 1947
Q-242, 1947	

(b) Fly levels using a wye level and Philadelphia rod were used to control the contours. Fifty two and seven tenths (52.7) miles of levels were run with no closures sufficiently large to require an adjustment.

(c) First level point 77-1. Last level point 77-113.

5. CONTOURS AND DRAINAGE

All contouring was done by planetable methods directly on the nine-lens photos using photo detail for horizontal control. The contour interval was five (5) feet. In wooded areas, the planetable was supplemented by use of the hand level for short distances or in locations where vertical control existed on either side of an area. Section 53 + 57.

In places where it was impossible to show all contours, notes were made on the photograph to aid the compiler.

6. WOODLAND COVER

The cover was classified in accordance with the Preliminary Edition of the Topographic Manual, Part II, dated June 1949, Paragraph #5433. *In accordance with published edition.*

7. SHORELINE AND ALONGSHORE FEATURES

(a) All shoreline is apparent except where sand has built up in small protected bights as a beach. At these points MHWL has been definitely defined where the length of the beach exceeds thirty meters or more.

(b) Pamlico River has no periodic tide, consequently MLWL is the same as MHWL.

(c) There are two piers along the Pamlico River which are now in ruins. They were clarified on the photos.

8. OFFSHORE FEATURES

Inapplicable.

9. LANDMARKS AND AIDS

(a) There are no landmarks in this quadrangle.

(d) One fixed aid (FORK POINT LIGHT) is submitted on Form 567. It was located by theodolite cuts, which will be submitted with T-8966. Copy of Form 567 attached.

10. BOUNDARIES, MONUMENTS AND LINES

This is covered in a "Special Boundary Report", which was submitted by Wilbur A. Nelson on 14 February, 1949, and a supplemental report, which will be submitted at a later date by A. J. Wraight. *Filed in Div. of Photogrammetry general files.*

One pricking card is submitted for a point on the Beaufort-Craven County line.

11. OTHER CONTROL

Not applicable.

12. OTHER INTERIOR FEATURES.

A prominent natural feature in this quadrangle is the relatively high swamp which is located in the southern portion of this quad. It is called pocosin, which is the Indian word for highland swamp.

13. GEOGRAPHIC NAMES

This is covered in a special report which was submitted by Wilbur A. Nelson, 14th February, 1949. *Filed in Geographic Names Section, Div. Charts.*

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Except as noted in Paragraph 10 and 13, there are no special reports for this quadrangle.

15. SWAMP

There are two types of swampland within the quad. In the southern section it is known as 'Pocosin' or highland swamp and is characterized by a dense growth of reeds with

occasional small gums, a large number of dead trees, but no large live trees. These 'pocosin' areas have been outlined with violet ink. In the areas adjacent to the Pamlico River, there are several gum and cypress swamps which support a heavy growth of trees. L

Submitted:
23 September 1949

Walter P. Massie
Walter P. Massie
Cartographic Survey Aid

Approved:
29 September 1949

E. R. McCarthy
E. R. McCarthy
Chief of Party

Photogrammetric Plot Report

This report is filed as part of the Descriptive Report for T-8967 and covers the photogrammetric plot for maps T-8966 to T-8968 inclusive and T-8977 to T-8979 inclusive.

COMPILATION REPORT T-8977

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-8967.

31. DELINEATION.

Compilation was by graphic methods. Incomplete or unsatisfactory areas have been indicated on the discrepancy overlay.

32. CONTROL.

A sufficient number of well placed pass points were established to insure control for the detail points.

33. SUPPLEMENTAL DATA.

None used.

34. CONTOURS AND DRAINAGE.

Contours were delineated as indicated on the field photographs with exceptions duly noted on the discrepancy overlay. See 53 and 57.

Drainage was compiled after careful stereoscopic examination; especial attention being paid to the heavily wooded swamps. See 57.

35. SHORELINE AND ALONGSHORE FEATURES

Shoreline inspection was adequate.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS.

No unusual methods of compilation employed.

See item 9.

38. CONTROL FOR FUTURE SURVEYS.

None.

39. JUNCTIONS.

Satisfactory junction has been made with T-8966 on the north, and with T-8978 on the east. There is no contemporary survey on the south and west.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement. See item 66.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with U.S. Geological Survey topographic Quadrangle "Vanceboro, N.C." scale 1:62,500, edition of 1904, reprinted 1945. The planimetry in general appears to be in agreement. Many cultural changes, however, have taken place.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with U.S. Coast and Geodetic Survey Chart 537, scale 1:40,000, edition of September 1937, bearing a print date of 12 January 1948. The chart and the map manuscript appear to be in agreement.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Charles J. Downing
Charles J. Downing
Cartographic Aid

Approved and Forwarded:

Arthur L. Wardwell
Arthur L. Wardwell, LCDR
Chief of Party

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PHOTOGRAMMETRIC OFFICE REVIEW

T. 8977

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

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy MMS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) J.G. ~~XXXXXXXXXXXX~~ 8. Bench marks J.G.
9. Plotting of sextant fixes J.G. 10. Photogrammetric plot report J.G. 11. Detail points J.G.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline J.G. 13. Low-water line J.G. 14. Rocks, shoals, etc. J.G. 15. Bridges J.G. 16. Aids to navigation J.G. ~~XXXXXXXXXXXX~~ 18. Other alongshore physical features J.G. 19. Other along-shore cultural features J.G.

PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. Planetable contours J.G. ~~XXXXXXXXXXXX~~
~~XXXXXXXXXXXX~~ 24. Contours in general J.G. 25. Spot elevations J.G. 26. Other physical features J.G.

CULTURAL FEATURES

27. Roads J.G. 28. Buildings J.G. 29. Railroads J.G. 30. Other cultural features J.G.

BOUNDARIES

31. Boundary lines J.G. ~~XXXXXXXXXXXX~~

MISCELLANEOUS

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

40. Jesse A. Giles *Jesse A. Giles* William A. Rasure *William A. Rasure*
Reviewer Supervisor, 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:

FIELD EDIT REPORT
Project Ph-20(47)
Quadrangle T-8977

51. METHODS

The field edit of this area was accomplished by traversing, via truck, all roads, and walking to other areas in which the reviewer requested information. A general check on the adequacy of the map compilation was made. The shoreline was inspected from a skiff.

Corrections and additions were made by standard surveying methods in conjunction with visual inspection.

All corrections and additions have been shown on the field edit sheet, field photograph 22340 and one overlay sheet. All work shown on the photograph is properly referenced to on the field edit sheet. All deletions have been noted on the field edit sheet.

The reviewer's questions are answered on the discrepancy print, field edit sheet, and in this report.

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

52. ADEQUACY OF COMPILATION

The map compilation, in general, is adequate and will be complete after field edit data has been applied.

53. MAP ACCURACY See 66.

The horizontal accuracy of the map detail, in general, is relatively good. However, it was necessary to correct the turning points of some contours almost throughout the quadrangle for topographic expression.

One vertical accuracy test was made by planetable traverse, on the field edit sheet, in the vicinity of Bay Branch at or near Lat. $35^{\circ}-28'$, Long. $77^{\circ}-05'$.

Ninety one per cent of the points tested were in error less than one-half contour interval.

55. EXAMINATION OF PROOF COPY

It is believed that Mr. W. C. Rodman, registered land surveyor, of Washington, N. C., is best qualified to examine a proof copy of this work.

Ref. to item 48 - Compilation Report.

A spot check of geographic names was made and found to be in excellent agreement with the geographic names list. All names referred for investigation have been clarified either in item 48 or on the field edit sheet.

56. SHORELINE AND OFFSHORE FEATURES

Ref. to item 7 - Field Inspection Report and Nautical Chart #537.

The shoreline and offshore features as indicated on the field edit sheet are correct.

57. CONTOURS AND DRAINAGE

Ref. to item 34 - Compilation Report.

Numerous corrections of contours were made throughout by both planetable and visual inspection methods. The majority of corrections were made to indicate, as near as possible, the true topography of the terrain.

Ditches in this area vary in width from 1 ft. to 8 ft. and do not affect the course of contours depicted on a map of this scale.

58. AREAL FIELD INSPECTION

Ref. to item 2 - Field Inspection Report.

Numerous additional buildings have been located on the field edit sheet.

Three new roads have been located on the field edit sheet. All roads have been reclassified, where necessary, in their proper category.

59. JUNCTIONS

Satisfactory junctions have been made with T-8966 to the north, T-8978 to the east. There are no contemporary surveys to the south and west.

1 June 1951
Submitted by:

James E. Hundley /H 78
James E. Hundley
Cartographer

8 June 1951
Approved:

Harry F. Garber
Harry F. Garber
Commander, USC&GS
Chief of Party

VERTICAL ACCURACY TEST REPORT

Project Ph-20(47)

Quadrangle T-8977

1. A vertical accuracy test was made in the vicinity of Bay Branch, Lat. $35^{\circ}-28'$, Long. $77^{\circ}-05'$, as requested.

2. Thirty points on contours were tested along the course of a 2.1 mile planetable traverse. This planetable traverse originated and terminated on a fly level point previously established. Both, the horizontal and vertical closures were negligible.

3. The elevations obtained are plotted directly on the field edit sheet.

4. After applying the allowable horizontal shift to the contours on the very steep slopes, 91% of the points tested were correct to within one-half contour interval.

2 May 1951

Submitted by:

James E. Hundley
James E. Hundley 14791
Cartographer

8 June 1951

Approved :

Harry F. Garber
Harry F. Garber
Chief of Party

PHOTOGRAMMETRIC REVIEW SECTION

NONFLOATING AIDS OR CHART MARKERS FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

Washington, North Carolina 28 September 1949

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~(attached form)~~ the charts indicated.

The positions given have been checked after listing by C. J. Downing
Tampa Photogrammetric Office

E. A. McCarthy

Chief of Party:

[illegible]

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

48. GEOGRAPHIC NAME LISTATLANTIC COAST LINE RAILWAYBAY BRANCHBEAUFORT COUNTYBLOUNT POCOSONBROWN BRANCH~~BAR R RD~~*CALS CREEKfor Cals Cr. (?) or Cals Cr. (4-10-82)
L HerbCEDAR GROVE CHURCHCHOCOWINITY BAYCHOCOWINITY CREEKCHOCOWINITY TOWNSHIPCLAYBOTTOM CHURCHCLAYBOTTOM ELEMENTARY SCHOOLCINDY EDWARDS BRANCHCRAVEN COUNTYDIVIDING CANALEDWARDS CEM.FORK POINTFORK POINT ISLANDFORK SWAMPGILEAD ROADGRAY ROADGUM RUN CANALGUM SWAMP RUN(?) = trib. Morris RunHACKNEY SIDINGHAWBRANCH CHURCHHILLS CREEKHOG HOLE BRANCHHORSE BRANCHISLAND CANALJOE BRANCHJUNIPER SWAMPLOT CANALLONG ACRE TOWNSHIPMAPLE GROVE CHURCHMAPLE GROVE ELEMENTARY SCHOOLMC CONNELMORRIS RUN(where is it)? on map, s. of Edwards Branch

48. GEOGRAPHIC NAME LIST (CONTINUED)

NORFOLK SOUTHERN RAILWAY
NORTH CAROLINA

OLD BLOUNT CREEK ROAD

PAMLICO RIVER
PINEY POND CANAL
PROVIDENCE CHURCH

REEDY POCOSON
RICE CREEK
ROVER STATION

pocosin also

SHEPPARD RUN
SHEPPARD RUN CANAL
SIDNEY CREEK
SILAS CREEK
ST JAMES CHURCH
STATE NO. 33

TOWNSHIP NO. 1

UNITED STATES NO. 17
UNION CHAPEL

WHITE BRANCH

WILMAR COMMUNITY BLDG.

*To be clarified by Field Editor.

CALS CREEK and CALF CREEK both given for the same stream on
 Geographic Name Sheets.

Names approved -

- subject to Field Edit

2-14-51

a. j. w.

*Rechecked 4-10-52
 L. H. H.*

Review Report T-8977
Topographic Map
11 April 1952

62. Comparison with Registered Topographic Surveys.-

T-1211	1:20,000	1870-71
T-6462	1:10,000	1935

No large changes in shoreline are evident between T-8977 and the previous surveys. T-1211 is superseded by T-8977 for nautical charting purposes. T-6462 shows close inshore features such as stakes, piling, and a wire fence which are not shown on T-8977.

63. Comparison with Maps of Other Agencies.-

Vanceboro, N.C., USGS 15' quadrangle
1:62,500 1902 Refer to item No. 46.

64. Comparison with Contemporary Hydrographic Surveys.- None

65. Comparison with Nautical Charts.-

. NO. 537 1:40,000 ed. 1937 corr. 6/11/51

There are no significant differences between T-8977 and the chart other than piling in the vicinity of Fork Pt. I. and in the vicinity of the ruined pier between the mouth of Rice Creek and Cals Creek. This piling is shown on the chart but not on T-8977.

66. Adequacy of Results and Future Surveys.-

This map complies with national map accuracy standards. It is adequate as a base for construction of nautical charts.

67. Geographic Names.-

A list of geographic names, approved by the Geographic Names Section, Div. of Charts, is attached (item 48).

Reviewed by:

K. N. Maki
K. N. Maki

APPROVED

S. V. Griffith
Chief, Revision Branch *7-29-53*
Div. of Photogrammetry

O. S. Reading
Chief, Div. of Photogrammetry

H. Edmonson
Chief, Nautical Chart Branch
Division of Charts *CFU*

Carl O. Huston
Chief, Div. of Coastal Surveys
SR7

History of Hydrographic Information
Quadrangle T-8977
Pamlico River - North Carolina

Hydrography was applied to the manuscript of this quadrangle in accordance with Division of Photogrammetry general specifications dated 18 May 1949.

Soundings and 6 foot depth curve at mean low water datum, originate with the following:

USC&GS Hydrographic Survey
H-5996 (1935) 1:10,000

Hydrography was compiled by K. N. Maki and verified by C. B. Samuel.

K. N. Maki
K. N. Maki
Div. of Photogrammetry
18 April 1952