

9838

Diag. Cht. No. 1228.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-61(49) Office No. T-9838

LOCALITY

State North Carolina

General locality Albemarle Sound

Locality Scuppernong River

1945-54

CHIEF OF PARTY

H.F. Garber, Chief of Field Party

J.E. Waugh, Tampa Photogrammetric Off.

LIBRARY & ARCHIVES

DATE January 9, 1958

B-1870-1 (1)

DATA RECORD

Page 1

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)*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):

MAR 20 1952

Date reported to Nautical Chart Branch (IV):

APR 6

1953

Applied to Chart No.

Date:

Date registered (IV): 23 April 1957

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 (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): SG 25, 1951

(E. of map Limits)

Lat.:

Long.:

Adjusted

~~Unadjusted~~

Plane Coordinates (IV):

State: N. C.

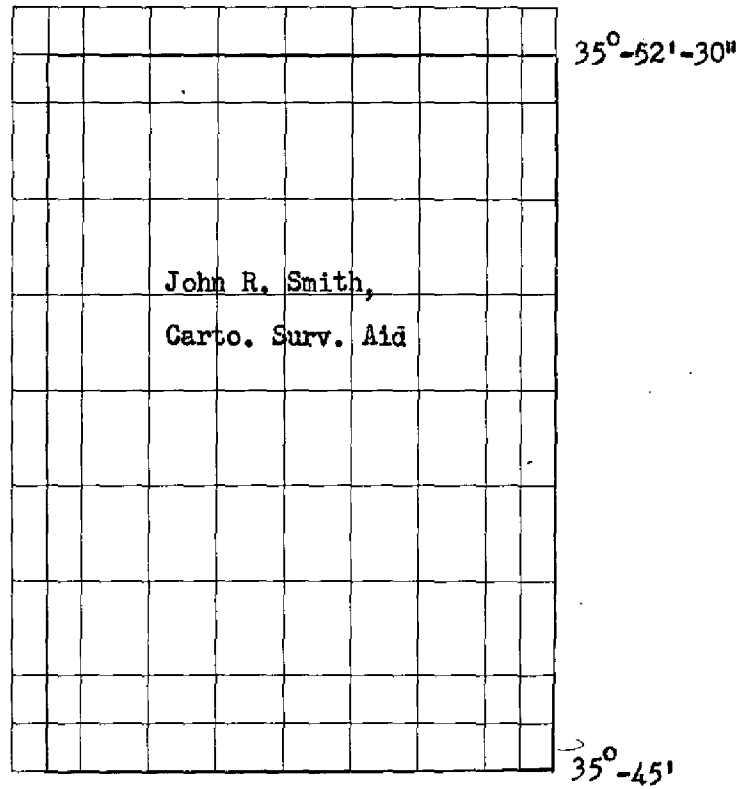
Zone:

Y= 767,218.29

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.



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

76°-22'-30" 76°-15'

DATA RECORD

Field Inspection by (II):	John R. Smith, Carto. Surv. Aid	Date: Oct. & Nov., 1951
Planetable contouring by (II):	John R. Smith, Carto. Surv. Aid	Date: Oct. & Nov., 1951
Completion Surveys by (II):	<i>James E. Hundley</i>	Date: <i>April 1954</i>
Mean High Water Location (III) (State date and method of location):	Inshore quadrangle	
Projection and Grids ruled by (IV):	J. A. (W.O.)	Date: 25 Jan. 1952
Projection and Grids checked by (IV):	H. D. Woolf (W.O.)	Date: 28 Jan. 1952
Control plotted by (III):	R. E. Smith, Jr.	Date: 31 Mar. 1952
Control checked by (III):	I. I. Saperstein	Date: 1 Apr. 1952
Radial Plot on Stereoscopic Control extension by (III):	M. M. Slavney	Date: 22 May 1952
Stereoscopic Instrument compilation (III):	Planimetry Inapplicable Contours	Date: Date:
Manuscript delineated by (III):	C. J. Downing R. A. Reece	Date: August 1952 24 Dec. 1952
Photogrammetric Office Review by (III):	J. A. Giles	Date: 22 Jan. 1953
Elevations on Manuscript checked by <i>WJ</i> (III):	J. A. Giles	Date: 10 Nov. 1952

Camera (kind or source) (III): Nine-lens 8 $\frac{1}{4}$ " focal length, USC&GS

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
33195	17 March 1951	12:38	1:20,000	No tide
33196	"	12:39	"	"
33197	"	12:41	"	"
33201	"	12:50	"	"
33202	"	12:52	"	"
33203	"	12:54	"	"

Tide (III)

Reference Station:
Subordinate Station:
Subordinate Station:

No tide (*inshore*)

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV): *Everett H. Ramey*Date: *8 Dec 1954*Final Drafting by (IV): *F. Johnson*Date: *16-18-55*

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

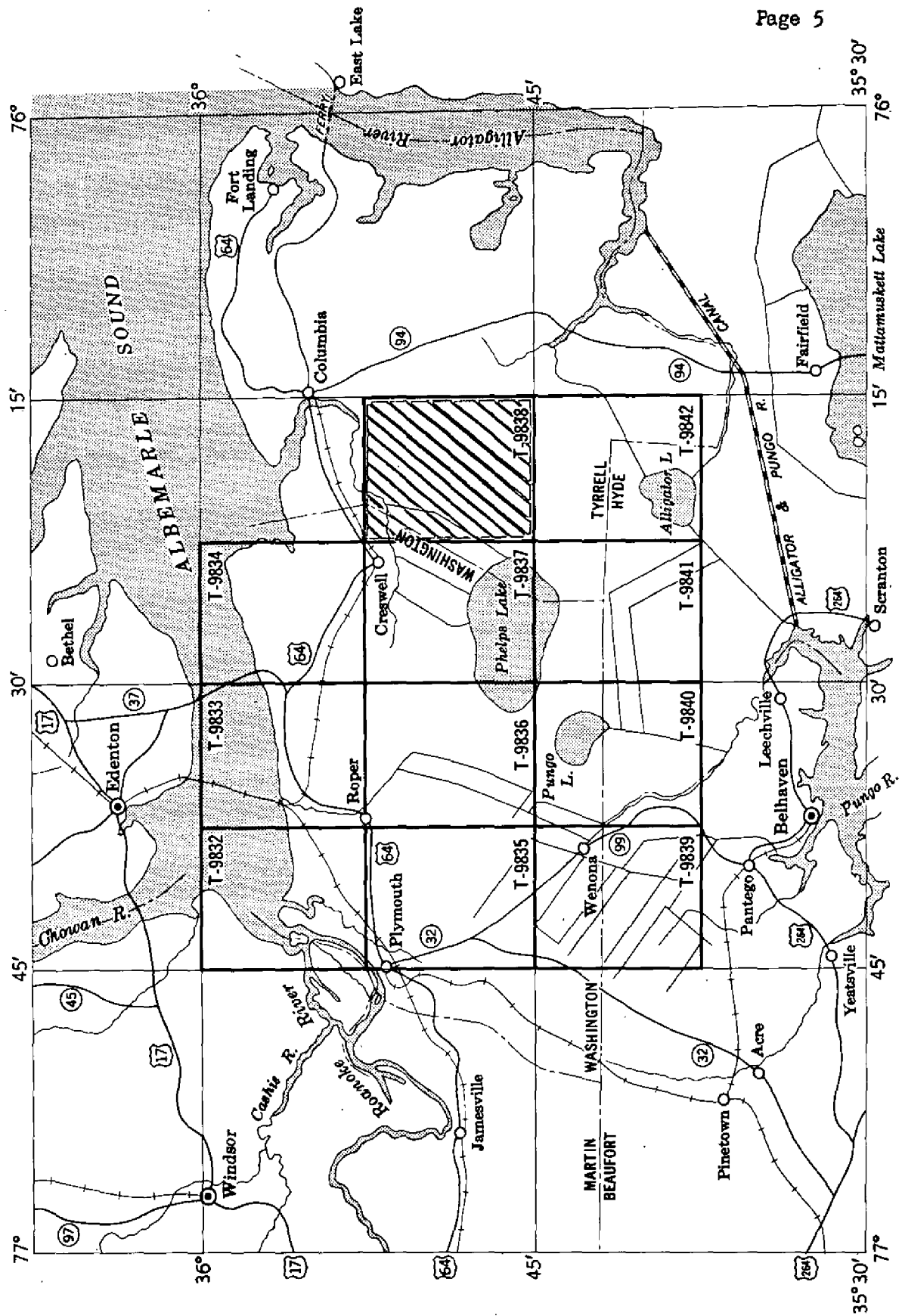
Date:

Land Area (Sq. Statute Miles) (III): *60.5 mi.*Shoreline (More than 200 meters to opposite shore) (III): *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:

NORTH CAROLINA, Albemarle Sound and Vicinity

Compilation scale 1:20,000



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.

FIELD INSPECTION REPORT

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.

3. 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. *

* One unmonumented traverse station with less than 3rd order accuracy falls

4. VERTICAL CONTROL

in quad. etc

(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. Hundley, Cartographer.

** Filed under project data, Division of Photogrammetry.*

11. OTHER CONTROL

There is no control within this quadrangle.

Sec 83

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. Gegan, Cartographic Survey Aid, dated October, 1951.

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

14 December 1951

Submitted by:

John R. Smith
John R. Smith,
Cartographic Survey Aid

27 December 1951

Approved by:

Allen L. Powell
for Harry F. Garber
Commander, USC&GS
Chief of Party

SCALE FACTOR

N.A. 1927 - DATUM
DISTANCE
FROM GRID OR PROJECTION LINE
IN METERS
FORWARD (BACK)

FACTOR DISTANCE
FROM GRID OR PROJECTION LINE
IN METERS

FORWARD (BACK)

3,394.58 (6,605.42)
8,586.85 (1,413.15)

Unmonumented station - less than
third-order accuracy. ~~error~~

CHECKED BY: R. J. Pate

DATE 21 March 1952

M-2388.12

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON 25

(C O P Y)

71-jgh

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

29 November 1951

EXPRESS ADDRESS:

To: Comdr. 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. Cravat

Reshaping Contours - Project Ph-61 - North Carolina

The field record for Project Ph-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 Scuppernon River is without shoreline structures. site

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 §66

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with U. S. C. 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 §65

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Charles J. Downing
 Charles J. Downing (J. Gilles)
 Carto. Photo. Aid

APPROVED AND FORWARDED:

J. E. Waugh
 J. E. Waugh, Chief of Party

48. GEOGRAPHIC NAME LIST.

· BALLAST BANK ✓
 · BEE TREE CANAL ✓
 · BODWELL ROAD ✓
 · BONARVA CANAL ✓

· CABIN SWAMP CHURCH ✓
 · COLUMBIA TOWNSHIP ✓
 · CROSS LANDING CHURCH ✓

· GUM NECK TOWNSHIP ✓

· HOLLY GROVE CHURCH ✓

* ~~JUNIPER CREEK~~ (is shown on T-9273: name o.k.)

· NEW LANDS ✓
 · NEW LANDS ROAD ✓
 · NORTH CAROLINA ✓

· OLD CANAL ✓

· SCUPPERNONG RIVER ✓
 · SCUPPERNONG TOWNSHIP (in both counties) ✓
 · 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. Heck

49. NOTES FOR THE HYDROGRAPHER.

None.

Field Edit Report
Project Ph-61-(49)
Quadrangle T-9838

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.

See §66

53. MAP ACCURACY

The horizontal accuracy of the map detail is relatively good.

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

See §66

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".

J.E.H.

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

57. OTHER INTERIOR 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
James E. Hundley
Cartographer

Approved

E. H. Kirsch
E. H. Kirsch,
Comdr. USC&GS
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. 9838

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 M.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XX 7. Photo hydro stations XX 8. Bench marks XX 9. Plotting of sextant fixes XX 10. Photogrammetric plot report J.G. 11. Detail points J.G.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline J.G. 13. Low-water line XX 14. Rocks, shoals, etc. XX 15. Bridges XX 16. Aids to navigation XX 17. Landmarks XX 18. Other alongshore physical features J.G. 19. Other along-shore cultural features J.G.

PHYSICAL FEATURES

20. Water features XX 21. Natural ground cover J.G. 22. Planetable contours J.G. 23. Stereoscopic instrument contours XX 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. 32. Public land lines XX

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 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. *by Tampa. EAK*_____
Compiler_____
Supervisor

43. Remarks:

M-2623-12

Review Report
Topographic Map T-9838
8 December 1954

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

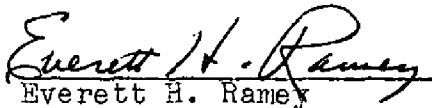
1228 1:80,000 1937 corrected to 53-5/11

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.

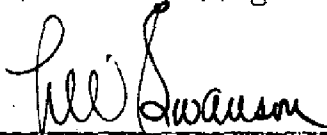
Reviewed by:


Everett H. Ramey

Approved by:


Chief, Review Branch
Division of Photogrammetry


Chief, Nautical Chart Branch
Division of Charts


Chief, Division of Photogrammetry


Chief, Division of Coastal Surveys

12 Dec 1957

NAUTICAL CHARTS BRANCH

SURVEY NO. 9838

Record of Application to Charts

[illegible]

M-2168-1

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.