

9273

ORIGINAL



Diag. Cht. Nos., 1228-3 & 1231-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Ph-45 (49) Office No. T-9273

LOCALITY

State NORTH CAROLINA

General locality ALLIGATOR RIVER

Locality HOLLOW GROUND SWAMP

194

CHIEF OF PARTY

Harry F. Garber, Chief of Field Party
J. E. Waugh, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

JUL 19 1955

DATE

9273

DATA RECORD

T-9273

Project No. (II): Ph-45(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 September, 1949
19 January, 1950 (Supplement One)Copy filed in Division of
Photogrammetry (IV)

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):

OCT 6 1952

Date reported to Nautical Chart Branch (IV): OCT - 9 1952

Applied to Chart No.

Date:

Date registered (IV): 22 June 1953

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III): Mean Sea Level

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): LOOKOUT TOWER, STEEL 1951

Lat.:

Long.:

Adjusted

Unadjusted

Plane Coordinates (IV): LAMBERT

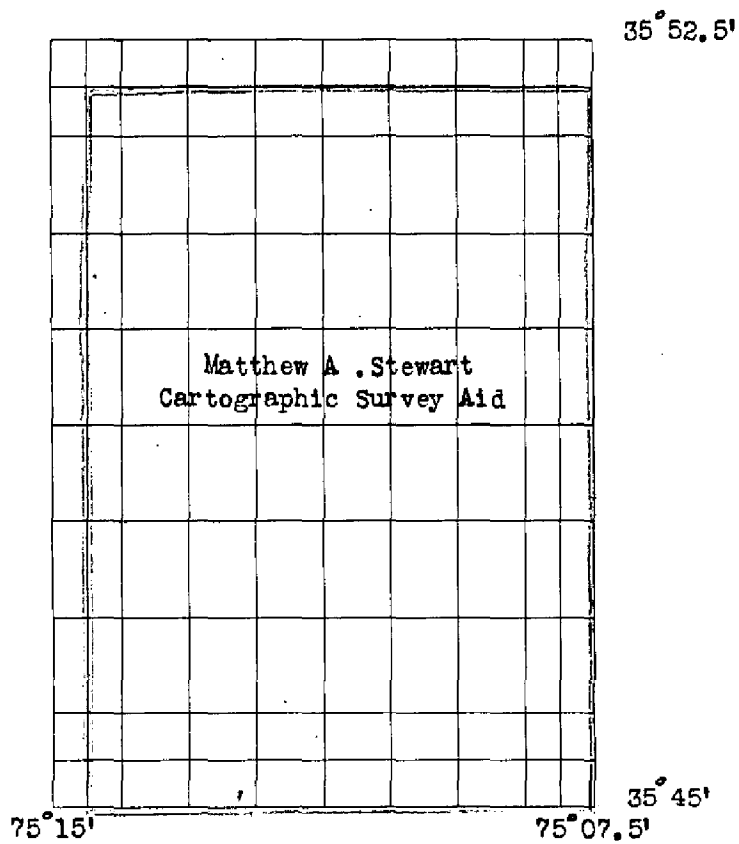
State: NORTH CAROLINA Zone:

Y= 780,508.45'

X= 2,824,073.60'

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)

DATA RECORD

Field Inspection by (II): **Matthew A. Stewart**
 Cartographic Survey Aid

Date: **March, 1951**

Planetable contouring by (II): **Matthew A. Stewart**
 Cartographic Survey Aid

Date: **April, 1951**

Completion Surveys by (II): **James E. Hundley**

Date: **Feb. 1953**

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

Projection and Grids ruled by (IV): **L. B. O. (W.O.)**

Date: **29 June 1951**

Projection and Grids checked by (IV): **H. D. W. (W.O.)**

Date: **3 July 1951**

Control plotted by (III): **I. I. Saperstein**

Date: **12 October 1951**

Control checked by (III):

R. J. Pate

Date: **12 October 1951**

~~Radial Plot by Stereoscopic/
 Control/extension by (III):~~

M. M. Slavney

Date: **2 January 1952**

Stereoscopic Instrument compilation (III):

Planimetry

Inapplicable

Date:

Contours

Date:

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

Date: **9 May 1952**

Photogrammetric Office Review by (III): **J. A. Giles**

Date: **29 August 1952**

Elevations on Manuscript

checked by ~~1/1~~ (III): **J. A. Giles**

Date: **28 August 1952**

Fairchild Cartographic Camera "0"
 Camera (kind or source) (III): USC&GS Nine-lens 8 $\frac{1}{4}$ " focal length

Number	Date	Time	Scale	Stage of Tide
49-0-1728-		12:15-		
1731 incl.	5 Dec. 1949	12:18 incl.	1:20,000	No tide
1758-		12:52-		
1761 incl.	"	12:55 incl.	"	"
1771-1772	"	13:13	"	"
1773-1774	"	13:14	"	"
1775	"	13:15	"	"
1866-1867	"		"	"
33211-33212	17 Mar. 1951	13:07	"	"
33213	"	13:08	"	"

Tide (III)

No tide

Reference Station:
 Subordinate Station:
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV):

Luna T. Stevens

Date: 24 June 1954

Final Drafting by (IV):

A.P. Berry

Date: 12/16/54

Drafting verified for reproduction by (IV):

W.O. Halluin

Date: 12-31-54

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 60

Shoreline (More than 200 meters to opposite shore) (III): None

Shoreline (Less than 200 meters to opposite shore) (III): None

Control Leveling - Miles (II): 18.7

Number of Triangulation Stations searched for (II): 4

Recovered: 0

Identified: 0

Number of BMs searched for (II): 8

Recovered: 8

Identified: 8

Number of Recoverable Photo Stations established (III): 0

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

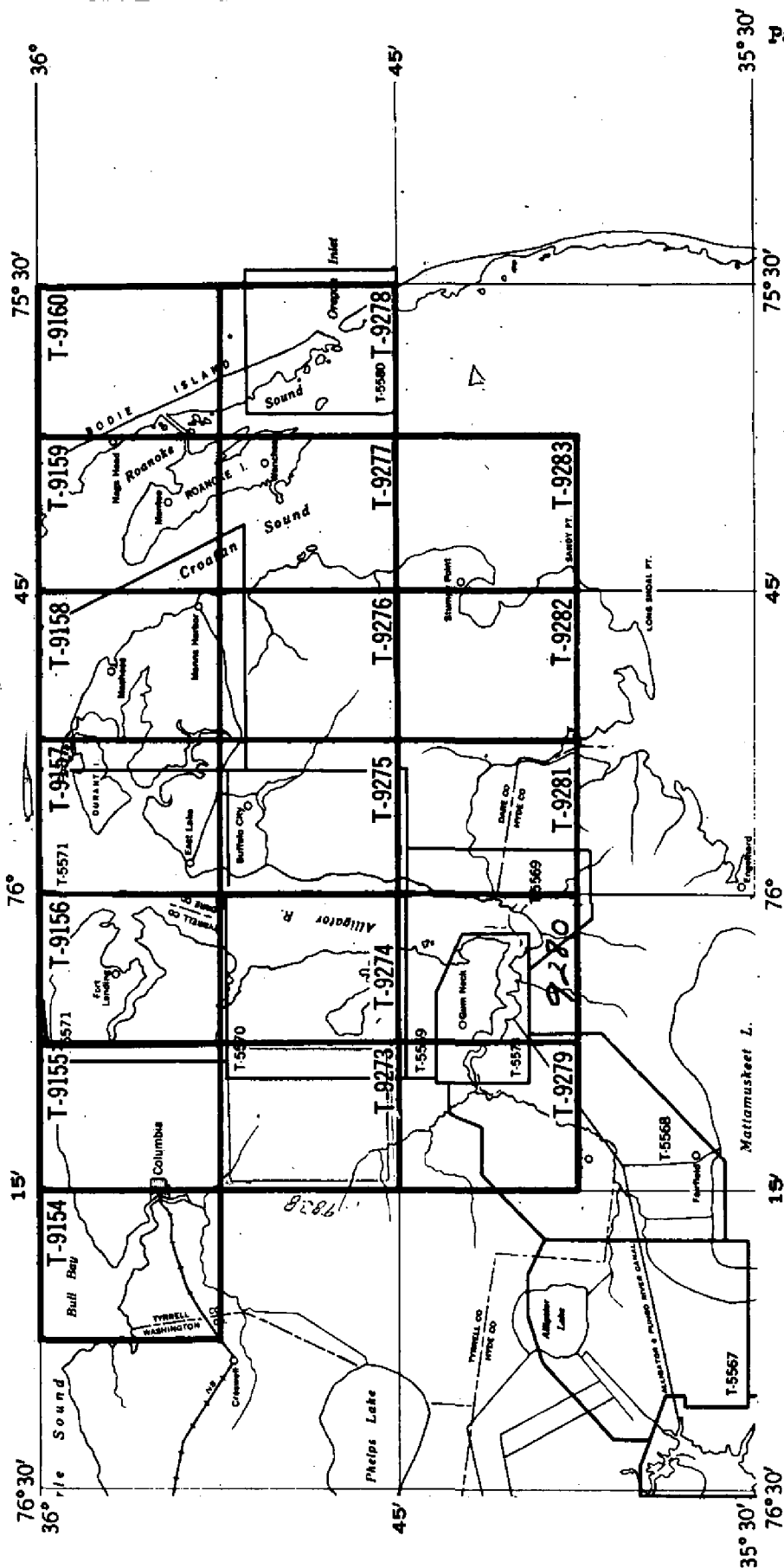
Number of Traverse stations established 3

Remarks:

TOPOGRAPHIC MAPPING PROJECT

PH-45 (49)

NORTH CAROLINA, Vicinity of Albemarle Sound



Summary to Accompany Topographic Map T-9273

T-9273 is one of eighteen similar maps in project Ph-45(49). It covers land area in Tyrrell County, North Carolina along Albemarle Sound.

Project Ph-45(49) is a graphic compilation project. Field work in advance of compilation included recovery and identification of horizontal control, the establishment of some vertical control, the inspection of shoreline and interior features, the delineation of 5-foot contours directly on the photographs, and the investigation of political boundaries and geographic names.

T-9273 was compiled at a scale of 1:20,000 using single-lens photographs taken in 1949 and nine-lens photographs taken in 1951. The map was field edited. The map will be forwarded to the Geological Survey for publication as a standard 7½-minute topographic map at a scale of 1:24,000.

Items registered under T-9273 will include a cloth-mounted print of the map manuscript at a scale of 1:20,000, a cloth-mounted color print of the published map at a scale of 1:24,000, and the descriptive report.

FIELD INSPECTION REPORT
Quadrangle T-9273
Project Ph-45(49)

Harry F. Garber, Chief of Party

The field work for this quadrangle was done in compliance with the Director's Instructions, Project Ph-45(49), dated 15 September 1949, and Supplement One Instructions, dated 19 January 1950. In addition to contouring as indicated on page 2, the field work was accomplished by:

<u>Name and Title</u>	<u>Phase</u>	<u>Date</u>
Richard L. McGlinchey Cartographic Survey Aid	Horizontal & Vertical Control Recovery & Identification Supplement Horizontal Control	January, 1951 February, 1951
Matthew A. Stewart Cartographic Survey Aid	Field inspection	March, 1951

2. AREAL FIELD INSPECTION

This quadrangle lies in Tyrrell County, south of Columbia, North Carolina. The entire quadrangle is of land area, predominately woods and swamp with a few scattered farms and cultivated fields. There are no incorporated towns or villages in the area. One highway, N. C. Route 94, running north and south from Columbia to Fairfield, splits the quadrangle. Numerous secondary roads lead east and west from the highway to isolated farms, and one road leads east to the Frying Pan and Alligator River.

Small scale farming and lumbering are the only industries. The U. S. Department of Agriculture, in conjunction with N. C. State College, maintains an experimental station on the east side of the highway embracing some 300 acres for the purpose of raising cattle on the various types of swamp vegetation.

The quality of the photographs is satisfactory. No difficulty should be encountered in interpretation of tones by the compiler.

The field inspection is believed to be complete.

79153

3. HORIZONTAL CONTROL

(a) As all existing control in the area has been lost, a third order monumented traverse was run from triangulation station "SAWYER, 1935" to U.S.E. Pipe Station G-1. The traverse was run along N. C. Highway 94, and 4 control points were established and identified within the quadrangle to control the radial plot. Two traverse monuments and a steel lock-out tower were established within the quadrangle. They are: SG-25, SG-26, LOOKOUT TOWER, STEEL. The pricking cards for the control points were sent to the Washington Office with the request that they be forwarded to the Photogrammetric Office when the coordinates of the points are adjusted.

(b) No datum adjustment was made by this field party.

(c) Four traverse stations established by the U.S.E.D. in 1942, falling within the quadrangle, were not recovered and are reported on Form 526.

(f) Control Point No. 7, SG traverse line, is the same feature as Photo Point 2 for Boundary Monument 1, State Fire Tower Reservation.
*Forms 14-22 26-12 submitted & filed in Div. of Photogrammetry General Files.
See Heading 10.*

4. VERTICAL CONTROL

(a) In order to supplement existing vertical control, a third order line, originating at Pinetown and terminating at Makeys, North Carolina, was run along N. C. Highway 94, with bench marks established at approximately one-mile intervals. This line was run in 1948 and recovery notes for these marks are submitted. The line was adjusted by the Washington Office. Bench marks established by this party in 1948 and recovered in 1951 are:

C-245	G-245
D-245	H-245
E-245	J-245
F-245	K-245

There is no other known vertical control within the quadrangle.

(b) 18.7 Miles of fly levels were run to establish supplement control for contouring, with the largest error of closure of 0.37 feet. No adjustment was made.

(c) The first and last level points are 73-01 to 73-52.

5. CONTOURS AND DRAINAGE

All contouring was done by planetable methods directly on single-lens photographs at a 5-foot interval. Spot elevations were taken from the highway and accessible areas into swamps and heavily wooded areas. All planetable traverses were closed loops.

Drainage within the quadrangle is slight. Water will stand in low areas after a rainstorm and only disappear through seepage or evaporation. All cultivated areas are drained by irrigation ditches. Canals parallel all roads and eventually lead east to the Alligator River.

6. WOODLAND COVER

Some difficulty was encountered in classifying the line between swamp and fast land. See discussion under paragraph 6 of Field Inspection Report of T-9154.

7. SHORELINE AND ALONGSHORE FEATURES

Not applicable.

8. OFFSHORE FEATURES

Not applicable.

9. LANDMARKS AND AIDS

(a) Not applicable.

(b) One fire lookout tower, 110 feet high, located on the east side of Highway 94, was located by third order methods.

10. BOUNDARIES, MONUMENTS AND LINES

See Special Report on Boundaries submitted by R. L. McGlinchey, Cartographic Survey Aid, in June, 1950.

11. OTHER CONTROL

No topographic stations were established within the quadrangle.

12. OTHER INTERIOR FEATURES

All roads and buildings were classified in accordance with paragraph 5441 and 5446 of the Topographic Manual.

13. GEOGRAPHIC NAMES

*On file
854*

This will be the subject of a "Special Report" to be submitted at a later date.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

With the exception of those items listed under paragraph 3(a), 10, and 13, there is no other data pertaining to this quadrangle.

7 June 1951

Submitted by:

Richard L. McGlinchey
Richard L. McGlinchey
Cartographic Survey Aid

9 June 1951

Approved by:

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

COMPILATION REPORT T-9273PHOTOGRAMMETRIC PLOT REPORT

This report submitted with T-9158.

31. DELINEATION.

The graphic method was used.

32. CONTROL.

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

33. SUPPLEMENTAL DATA.

None used.

34. CONTOURS AND DRAINAGE.

No difficulty was encountered during the delineation of contours or drainage.

Minor discrepancies noted on discrepancy overlay.

35. SHORELINE AND ALONGSHORE DETAILS.

No statement.

36. OFFSHORE DETAILS.

No statement.

37. LANDMARKS AND AIDS.

Reference Item 9.

ITEMS TO BE CARRIED FORWARD.

None.

Charles J. Downing
Charles J. Downing, Carto. Photo. Aid.
J. G.

APPROVED AND FORWARDED:

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

FIELD EDIT REPORT
Project Ph-45(49)
Quadrangle T-9273

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 February, 1953.

Field edit data appears on the field edit sheet, discrepancy print, field photographs 49-0-1759, 1772, 1774, 1820, and in this report. (Photograph 49-0-1820 will be found with all other data for quadrangle T-9155.)

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

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 field edit revisions have been applied.

53. MAP ACCURACY

The horizontal accuracy of the map detail is relatively good.

The accuracy of the contouring, in general, is good. Primary deficiency being topographic expression. Contour corrections were made in these two areas: Latitude 35° - $51'$, Longitude 76° - $15'$; and Latitude 35° - $52'$ - $30''$, Longitude 76° - $15'$.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

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

GEOGRAPHIC NAMES - Refer to item 48 - Compilation Report.

1. LONG ISLAND - This name is not widely known. The approximate area has been outlined on photograph 49-0-1774. According to local information from inhabitants in the very near vicinity, this is an area known to woodsmen only. Recommend the name be deleted.

56. BOUNDARIES

Refer to item 41 - Compilation Report.

According to local county officials, Miss Sadie Taft (Tyrrell County Tax Recorder) and Mr. Clarence Chapman (Tyrrell County Court Clerk), the township lines shown on the field edit sheet are correct as indicated. These township lines are not surveyed; they are arbitrarily drawn on a county map by the Board of County Commissioners.

57. OTHER INTERIOR FEATURES

Refer to item 12 - Field Inspection Report.

All features labeled "Dismantled R.R." have been deleted. These tram lines (dismantled R.R.) are abandoned immediately after they have served the purpose of the lumber companies who built them. After the rails are removed the lines soon become covered with vegetation.

58. DRAINAGE

Refer to item 5 - Field Inspection Report.

All "feeder" ditches have been deleted.

59. JUNCTIONS

Satisfactory junctions have been made with T-9155 on the north, T-9274 on the east and T-9279 on the south. The junction with T-9838 will be made at the time of field edit of Project Fh-61.

17 March 1953

Submitted by:

James E. Hundley
James E. Hundley,
Cartographer

25 March 1953

Approved by:

Paul Taylor
Paul Taylor
Lt. Comdr., USC&GS
Chief of Party

48. GEOGRAPHIC NAME LIST.

- ALLIGATOR TOWNSHIP ✓
- BASNIGHT CANAL ✓
- COLUMBIA TOWNSHIP ✓
- COOPERS CREEK ✓
- FRYING PAN ROAD ✓
- GUM NECK ROAD ✓
- GUM NECK TOWNSHIP ✓
- *HOLLOW GROUND SWAMP ✓
- JUNIPER CREEK ✓
- *LONG ISLAND
- NORTH CAROLINA ✓
- NORTHWEST FORK ✓
- SCOTIA ✓
- STATE 94 ✓
- SWAMP ROAD ✓
- TYRRELL COUNTY ✓

Names o.k. See notes
on name sheet regarding
placement.

*Listed pending verification by field editor. Compiler
unable to delineate limits of feature on manuscript.

Names underlined in
red are approved

10-27-52
L. H. H. H.

Based on Project Names
Report.

Names checked
and approved.

6-25-54
a. d. w.

49. NOTES FOR THE HYDROGRAPHER.

None.

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9273

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) J.G. 7. Photo hydro stations XX 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 XX 14. Rocks, shoals, etc. XX 15. Bridges XX 16. Aids to navigation XX 17. Landmarks XX 18. Other alongshore physical features XX 19. Other along-shore cultural features XX

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 XXX

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.

Compiler

Supervisor

43. Remarks:

Review Report
Topographic Map T-9273
24 June 1954

62. Comparison with Registered Topographic Surveys.-No earlier surveys were made of this interior area.

63. Comparison with Maps of other Agencies.-

USE Columbia, N. Carolina, 1:125,000, 1943

A superficial inspection discloses no conflict in in salient features.

64. Comparison with Contemporary Hydrographic Surveys.-This is an interior area.

65. Comparison with Nautical Charts.-

1228 1:80,000 ed. May 1937, corr. Aug. 1951

The area included in T-9273 is not delineated on the chart.

66. Accuracy.-The map complies with project instructions and meets the National Standards of Map Accuracy. ✓

There is no tidal water within the limits of this map.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED

H. C. Lande
Chief, Review Branch
Division of Photogrammetry

J. M. Edmonson
Chief, Nautical Chart Branch
Division of Charts 6F

W. W. Swanson
Chief, Div. of Photogrammetry

Carl O. Heston
Chief, Div. of Coastal Surveys

July 8, 1955

NAUTICAL CHARTS BRANCH

SURVEY NO. 9273

Record of Application to Charts

[illegible]

M-216B-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.