

9279

*

Diag. Cht. No. 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-9279

LOCALITY

State North Carolina

General locality Alligator River

Locality Kilkenny

1945

CHIEF OF PARTY

Harry F. Garber, Chief of Field Party

J. E. Waugh, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE JULY 19, 1955

B-1870-1 (1)

6226

DATA RECORD

Page 1

T -9279

Project No. (II): Ph-45(49)

Quadrangle Name (IV):

Field Office (II): Edenton, N. C.

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)
15 May 1951 (Supplement Two)

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): SEP 16 1952 Date reported to Nautical Chart Branch (IV): SEP 24 1952

Applied to Chart No.

Date:

Date registered (IV): 21 June 1955

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): SAWYER, 1935

Lat.: 35° 42' 25".995 (801.2m.) Long.: 76° 08' 17".902 (450.0m.)

Adjusted
~~Unadjusted~~

Plane Coordinates (IV): Lambert

State: N.C.

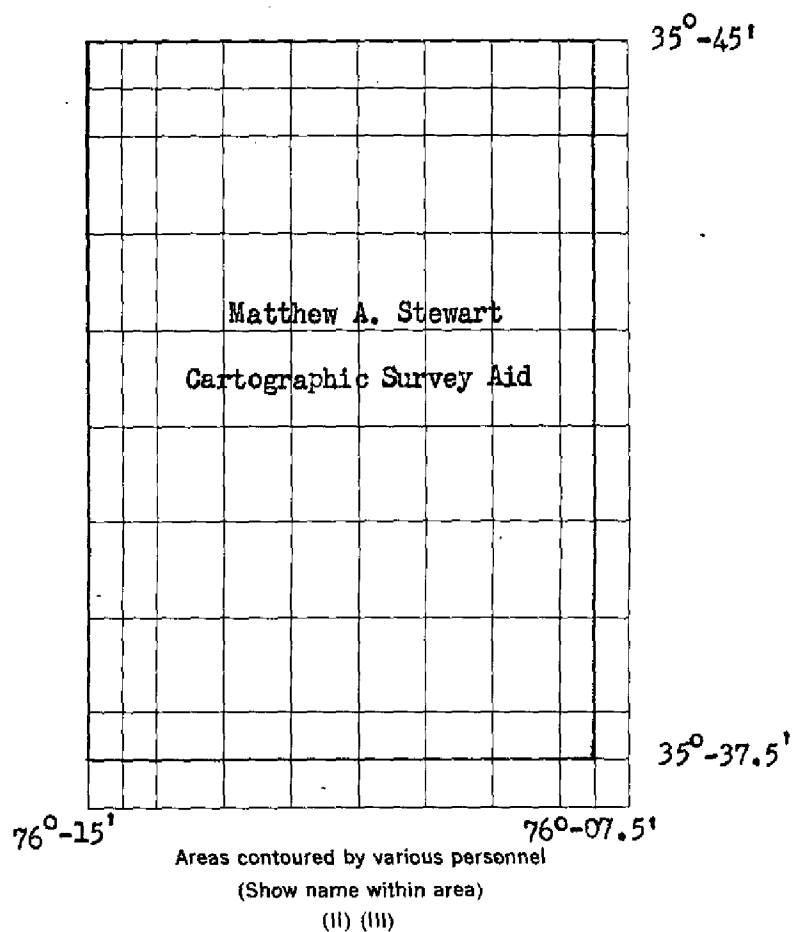
Zone:

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.



DATA RECORD

Page 3

Field Inspection by (II): H. R. Spies
Carto. Surv. Aid

Date: Feb. 1951

Planetable contouring by (II): M. A. Stewart
Carto. Surv. Aid

Date: June, 1951

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

Date: *March 1953*

Mean High Water Location (III) (State date and method of location): **Air Photo Compilation**

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 Oct. 1951

Control checked by (III): R. J. Pate

Date: 15 Oct. 1951

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

M. M. Slavney

Date: 11 Jan. 1952

Stereoscopic Instrument compilation (III):
Planimetry
Contours

Inapplicable

Date:

Date:

Manuscript delineated by (III): R. A. Reece

Date: 27 Mar. 1952

Photogrammetric Office Review by (III): R. Dossett

Date: 11 Apr. 1952

Elevations on Manuscript
checked by ~~(II)~~ (III):

R. A. Reece

Date: 27 Mar. 1952

Camera (kind or source) (III): Fairchild Cartographic Camera "O" and USC&GS
Nine-lens camera, $8\frac{1}{2}$ " focal length

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PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
1721-1724, incl.	5 Dec. 1949	11:54	1:20,000	No tide *
1728-1731, incl.	"	12:15	"	"
33203	17 Mar. 1950	12:54	"	"
33204	"	12:55	"	"
33205	"	12:56	"	"
33209	"	13:05	"	"
33210	"	13:05	"	"
22117	29 Mar. 1948	11:52	"	"
24108	21 Dec. 1948	12:06	"	"

Tide (III)

Inapplicable *
No tide

Ratio of Ranges	Mean Range	Spring Range

Reference Station:

Subordinate Station:

Subordinate Station:

* Tide is less than $\frac{1}{2}$ foot. $\frac{1}{2}$ ft.

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

Date: 4 May 1954

Final Drafting by (IV): Anna Berry

Date: 8 Dec. 1954

Drafting verified for reproduction by (IV): M. O. Hallin

Date: 1-10-55

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 59

Shoreline (More than 200 meters to opposite shore) (III): 18

Shoreline (Less than 200 meters to opposite shore) (III): 26

Control Leveling - Miles (II): 17.5

Number of Triangulation Stations searched for (II): 6

Recovered: 1

Identified: 1

Number of BMs searched for (II): 8

Recovered: 8

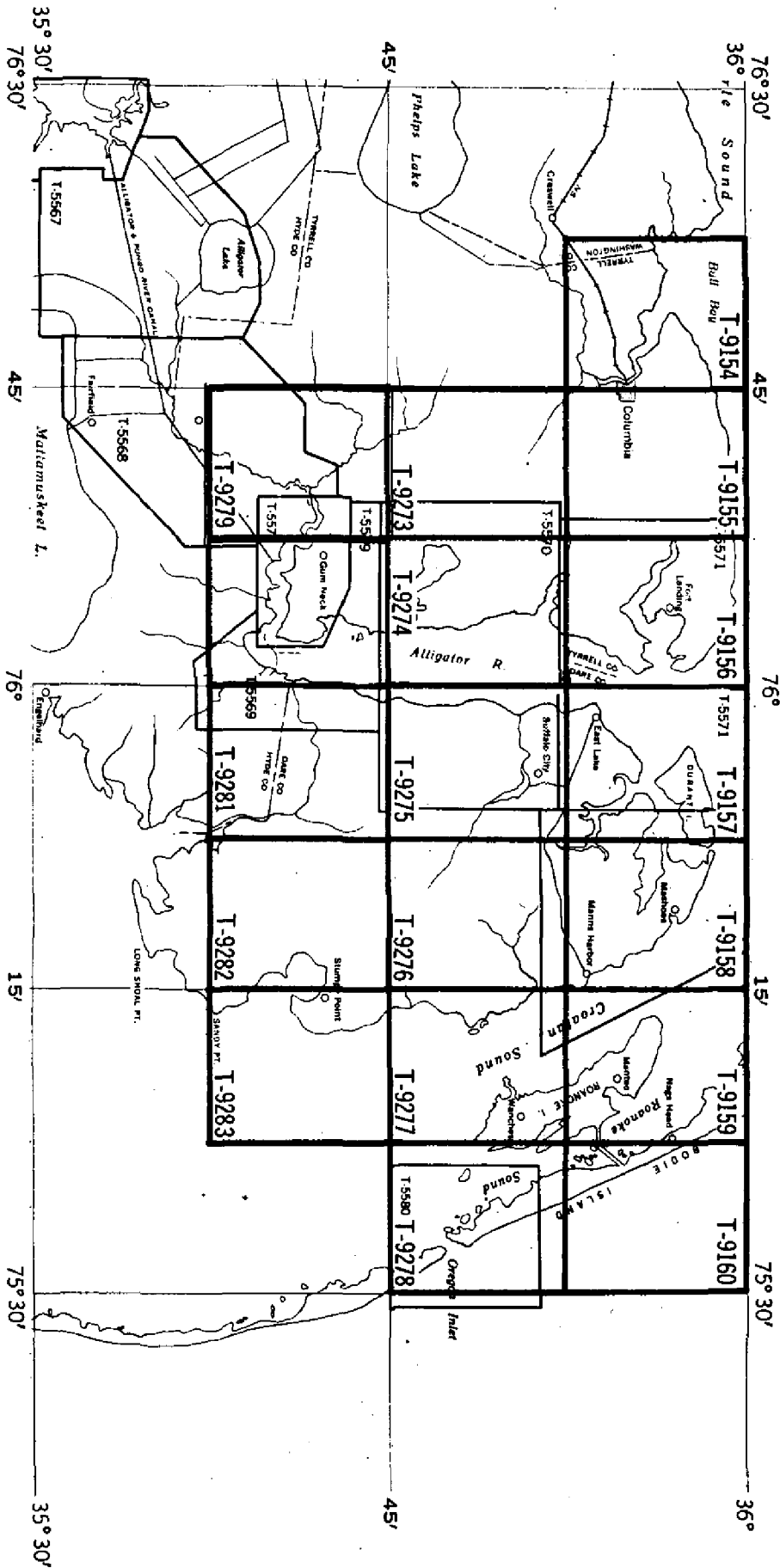
Identified: 8

Number of Recoverable Photo Stations established (III): none

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

Remarks: One triangulation station (KILKENNY, 1935) falling within the limits of this quadrangle was recovered and identified in Project Ph-20 during field work for Ph-20(47).
~~in Project Ph-20~~

TOPOGRAPHIC MAPPING PROJECT PH-45 (49) NORTH CAROLINA, Vicinity of Albemarle Sound



Summary to Accompany Topographic Map T-9279

Topographic map T-9279 is one of 18 similar maps of Project Ph-45(49). It covers portions of the Alligator River and the Intracoastal Waterway and adjacent land area - all within Hyde and Tyrrell counties.

Project Ph-45(49) is a graphic compilation project. Field work in advance of compilation included field inspection of shoreline and interior features, the establishment of additional control, the delineation of contours at five-foot intervals directly on the photographs by planetable methods and the investigation of political boundaries and geographic names.

Map T-9279 was compiled at a scale of 1:20,000 using nine lens photographs taken in 1948 and 1950 and single lens photographs taken in 1949. The map was field edited. With the addition of hydrographic information the map will be forwarded to the Geological Survey for publication as a standard 7½-minute topographic map.

Items registered under T-9279 will include a descriptive report, a cloth-backed lithographic print of the map manuscript at a scale of 1:20,000 and a cloth-backed color print of the published map.

FIELD INSPECTION REPORT
 Quadrangle T-9279
 Project Ph-45(49)

Harry F. Garber, Chief of Party

The field work for this quadrangle was done in accordance with Instructions for Ph-45(49) as listed on page 1. In addition to phases shown on pages 2 and 3, the work was accomplished by the following personnel:

<u>Name and Title</u>	<u>Phase</u>	<u>Date</u>
Richard E. Conway, Jr. Cartographic Survey Aid	Shoreline Inspection	March, 1951

2. AREAL FIELD INSPECTION

Kilkenny and Gum Neck, two small unincorporated farm villages, are within the quadrangle. They are served by a pattern of secondary roads connecting with state highway no. 94. The Intracoastal Waterway passes through the southeastern part of the area. Farming and lumbering are the only industries.

It is believed that the field inspection is complete.

3. HORIZONTAL CONTROL

A third-order traverse was run from triangulation station "SAWYER, 1935" through the northern part of the quadrangle to Pipe Stn. G1 at Columbia, N. C. Two monumented stations SG-16 and SG-17* were established and three ^{unmarked} control points, CP-1, CP-2 and CP-3, were located in the quadrangle.

* SG-17 is north of map limits. ENR

4. VERTICAL CONTROL

A third-order level line, originating at Pinetown and terminating at Mackeys, N. C., was run along N.C. Highway 94, establishing bench marks at approximately one-mile intervals. in 1948 and recovery notes were written in 1951. They are:

U-244	Y-244
V-244	Z-244
W-244	A-245
X-244	B-245

17.5 Miles of fly levels were run to supplement control for contouring.

The first and last designated level points are 79-1 and 79-39. The greatest error of closure is 0.32 foot, and no adjustment was made.

5. CONTOURS AND DRAINAGE

All contouring was done by plane-table methods directly on nine-lens photographs at an interval of five (5) feet. All traverses were closed loops if more than two instrument set ups were made.

Drainage is sluggish. All cultivated areas are drained by ditches and canals. All drainage is toward Alligator River or its tributaries.

6. WOODLAND COVER

It is believed that sufficient classifications have been made, and the demarcation line between swamp and trees shown, to enable the compiler to establish this line in inaccessible areas that were not visited by the field party.

7. SHORELINE AND ALONGSHORE FEATURES

There is no perceptible periodic tide, therefore, the mean high-water line and the low-water line are synonymous.

Tide is less than 1/2 foot. ENR

There are no bluffs, cliffs, docks, wharves, piers or submarine cables. The only landings are adequately labeled.

8. OFFSHORE FEATURES

None.

9. LANDMARKS AND AIDS

Unapplicable.

10. BOUNDARIES, MONUMENTS AND LINES

This is the subject of a special report submitted by Mr. R. L. McGlinchey, Cartographic Survey Aid, dated June, 1950.

This report is filed in the Div. of Photogrammetry under project data. ENR

11. OTHER CONTROL

None established.

See §57

12. OTHER INTERIOR FEATURES

All roads and buildings were classified in accordance with the Topographic Manual. *See § 58*

13. GEOGRAPHIC NAMES

This is the subject of a special report submitted by Mr. Merle W. Smith, Cartographic Survey Aid, dated August, 1951.

This report is filed in the Geographic Names Section, Div. of Charts.

7 August 1951

Submitted by:

George E. Varnadoe
George E. Varnadoe
Cartographic Engineer

8 August 1951

Approved by:

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

Photogrammetric Plot Report

This report covers surveys T-9154 through T-9158, T-9273 through T-9276 and T-9279 through T-9283. It is filed as part of the Descriptive Report for T-9158.

[illegible]

11

COMPILATION REPORT T-9279

PHOTOGRAMMETRIC PLOT REPORT.

This report submitted with T-9158.

31. DELINEATION.

The manuscript was delineated by the graphic method.

Field inspection was adequate.

All photographs were clear. Single-lens photographs were of very poor scale. Nine-lens photographs were of much better scale and were used almost entirely in compiling.

32. CONTROL.

Adequate control was provided. Identification was positive. Density and placement were good.

33. SUPPLEMENTAL DATA.

None used.

See §10.

34. CONTOURS AND DRAINAGE.

No difficulties were encountered in the delineation of drainage or in the transferring of contours.

35. SHORELINE AND ALONGSHORE DETAILS.

Shoreline inspection was adequate. Alongshore details were delineated without difficulty,

36. OFFSHORE DETAILS.

None.

37. LANDMARKS AND AIDS.

None.

38. CONTROL FOR FUTURE SURVEYS.

None.

39. JUNCTIONS.

This quadrangle joins Survey No. T-9273 to the north; T-9280 to the east; and T-8973 (Project Ph-20(47)) to the south. There is no contemporary survey to the west.

Junctions were in agreement.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

See § 53

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with USC&GS Planimetric Maps T-5568, T-5569, scale 1:20,000, (from photos taken in autumn 1934) and T-5573, scale 1:10,000, (from photos taken in October 1934.) Portions of each map embraced a segment of the area covered by the map manuscript. No significant changes have taken place.

See § 62 & § 63

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with Intracoastal Waterway Chart No. 831, scale 1:40,000, published February 1943, corrected to 4 December 1950. No major differences exist. The maps listed under Item 46 were the source of topography on the charts and the same statement applies.

See § 65

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.


None.

ITEMS TO BE CARRIED FORWARD.

None.


Richard A. Reece, Carto. Photo. Aid

APPROVED AND FORWARDED.


J. E. Waugh, Chief of Party

FIELD EDIT REPORT
Project Ph-45(49)
Quadrangle T-9279

51. METHODS

The field edit of this area was accomplished by standard surveying methods in conjunction with visual inspection. Actual field work was started in February, 1953 and completed in March, 1953.

Field edit data appears on the field edit sheet, discrepancy print, field photograph 49-0-1722, and in this report.

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

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 contouring is relatively good.

See §66

54. RECOMMENDATIONS

None.

55. EXAMINATION

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

Geographic Names

Refer to reviewer's question on discrepancy print.

1. GUM NECK - This name applies to all of the inhabited area of Gum Neck Township north of the northwest fork of Alligator River.

56. DRAINAGE

Refer to reviewer's question on discrepancy print.

All feeder ditches have been deleted. See the field edit sheet for completion of main drainage pattern.

57. OTHER CONTROL

Refer to Item 11 - Field Inspection Report.

Forms 524 are submitted for SAWYER, 1935 and SPOIL, 1935 azimuth marks. These marks were recovered and identified in 1951 and 1949, respectively.

58. OTHER INTERIOR FEATURES

Refer to Item 12 - Field Inspection Report.

All features labeled "Dismantled R.R." have been deleted. These features are of a temporary nature only. After these tram lines (dismantled R.R.) have served the purpose of the lumber companies who build them, the rails are removed and the lines soon become covered with vegetation.

59. JUNCTIONS

Satisfactory junctions have been made with T-9273 on the north and T-9280 on the east. Junction with T-8973, Ph-20(47) will be made by the Washington Office, and junction with T-9842, Ph-61(49) will be made by the Tampa Office.*

* These junctions have been made. *EHK*

24 March 1953

Submitted by:

James E. Hundley
James E. Hundley,
Cartographer

23 April 1953

Approved by:

Paul Taylor
Paul Taylor
Lt. Comdr., USC&GS
Chief of Photo. Party #1

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 9279

1. Projection and grids R. D. 2. Title R. D. 3. Manuscript numbers R. D. 4. Manuscript size R. D.

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 R.D. 9. Plotting of sextant fixes XX 10. Photogrammetric plot report R.D. 11. Detail points R.D.

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

20. Water features R.D. 21. Natural ground cover R.D. 22. Planetable contours R.D. 23. Stereoscopic instrument contours XX 24. Contours in general R.D. 25. Spot elevations R.D. 26. Other physical features R.D.

CULTURAL FEATURES

27. Roads R.D. 28. Buildings R.D. 29. Railroads R.D. 30. Other cultural features R.D.

BOUNDARIES

31. Boundary lines R.D. 32. Public land lines XX

MISCELLANEOUS

33. Geographic names R.D. 34. Junctions R.D. 35. Legibility of the manuscript R.D. 36. Discrepancy overlay R.D. 37. Descriptive Report R.D. 38. Field inspection photographs R.D. 39. Forms R.D. 40. Rudolph Dossett Jesse A. Giles
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. EHR

Compiler

Supervisor

43. Remarks:

M-2623-12

48. GEOGRAPHIC NAME LIST.

- ALLIGATOR RIVER ✓
- ALLIGATOR RIVER - PUNGO RIVER CANAL ✓
- BONNET POINT ✓
- CEDAR GROVE CHURCH ✓
- CHERRY RIDGE LANDING ✓
- FAIRFIELD TOWNSHIP ✓
- GUM NECK ✓
- GUM NECK TOWNSHIP ✓ (village)
- GUM NECK ROAD
- HYDE COUNTY ✓
- INTRACOASTAL WATERWAY ✓
- KILKENNY ✓
- KILKENNY LANDING ✓
- LONG RIDGE
- NORTH CAROLINA ✓
- NORTHWEST FORK ✓
- PINEY GROVE CHURCH ✓
- PINEY POINT ✓
- RICHMOND CEDAR WORKS LANDING ✓
- SCOUTS BAY ✓
- SOUTHWEST FORK ✓
- STATE 94 ✓
- SWAMP ROAD
- TYRRELL COUNTY ✓
- UNION CHAPEL ✓

Names underlined
in red are approved
Based on Project Names
Report. 10-6-52
L. Heck.

49. NOTES FOR THE HYDROGRAPHER.

All shoreline of the Alligator River (Quadrangle T-9279) is foul from 20 to 50 feet offshore from each bank, with trees, stumps and logs.

Forms 524 : See §57

Sawyer RM No. 2 (AZ MK) 1935

Spoil RM No. 2 (AZ MK) 1935

History of Hydrographic Information

Map T-9279

Hydrography was added 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 datum and originate with the following:

Hydrographic survey H-5915, 1:10,000, 1935
and Nautical Chart 1231, 1:80,000, 1938 corrected
to 53-5/18.

Hydrography was compiled by Everett H. Ramey on 20 May 1954 and checked by O. Svendsen on 11 June 1954.


Everett H. Ramey

Review Report
Topographic Map T-9279
4 May 1954

62. Comparison with Registered Topographic Surveys:

H-1315	1:20,000	1876
T-5568	1:20,000	1934
T-5573	1:10,000	1935
T-6371	1:10,000	1935

Some changes in culture and shoreline have occurred since these surveys. Portions of H-1315 are very bad for position but this deficiency was corrected in compiling the Nautical Charts 1231 and 831. Map T-9279 is to supersede the above surveys for nautical charting purposes for the area encompassed by this map.

63. Comparison with Maps of Other Agencies:

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

A few differences in culture exist between the maps but they are of lesser significance.

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

831	1:40,000	1952	corrected to 53-6/15
1231	1:80,000	1938	Corrected to 53-5/18

No significant differences were noted. Changes made to the map manuscript during this review are shown in red.

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
Everett H. Ramey

APPROVED BY:

L. C. Lande
Chief, Review Branch
Div. of Photogrammetry

W. E. Swanson
Chief, Div. of Photogrammetry

July 8, 1955

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

Carl O. Heaton
Chief, Div. of Coastal Surveys