9275



Diag. Cht Nos., 1228-3, 1229, & 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-9275

LOCALITY

State NORTH CAROLINA

General locality DARE COUNTY

Locality BUFFALO CITY

194 53

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

LIBRARY & ARCHIVES

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9275

T -9275

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):JUL 2 2 1952 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 2/ June, 1955

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

N. A. 1927

Vertical Datum (III): M5L

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): CYPRESS. 1914

35° 48° 44".181 (1361.7M) Long.: 75° 59° 38".202 (959.1M)

Plane Coordinates (IV):

State:

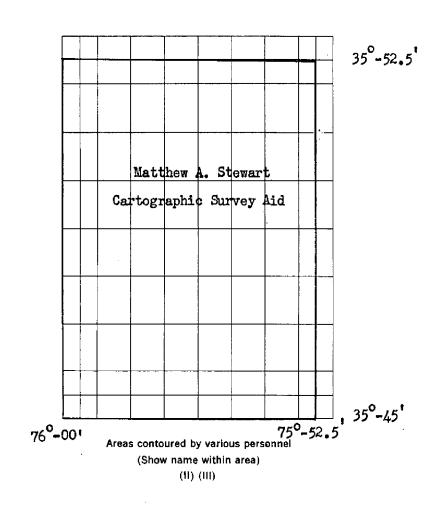
Zone:

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.

Page 2



DATA RECORD

H. R. Spies, Field Inspection by (II):

Cartographic Survey Aid

George E. Varnadoe, Cartographic Engineer

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

April, 1951 Date:

June, 1951

May, 1951 Date:

Completion Surveys by (II): Vagnes E. Hundley

Date: March 1953

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

Air Photo

5 Dec. 1949

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

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

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

13 Nov. 1951 Date:

Date: 14 Nov. 1951

Date: 19 Sept. 1951

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

26 Sept. 1951 Date:

Radial Plot de State de Secondos

CONTOR EXPENSED by (III): M. M. Slavney Date:

18 Oct. 1951

Planimetry

Stereoscopic Instrument compilation (III): Inapplicable

Contours

Date:

Date:

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

Date: 10 April 1952

Photogrammetric Office Review by (III): R. Dossett

J. A. Giles

Date: 23 April 1952

26 May 1952

Elevations on Manuscript

checked by (Mtx (III): R. Dossett

Date:

23 April 1952

Number 1735-1736 1737-1738 1739 1751 1752 1753 1754 1779-1781	Date 5 Dec. 1949 n n n n	PHOTOGRAPHS (III) Time 12:17 12:18 12:19 12:44 12:45 12:46 12:47 13:17	Scale 1:20,000 11 11 11 11 11	Stage of Tide No periodic tide "" "" "" "" "" "" "" "" "" "" "" "" "
1782-1783	n	13:18	11	11

Tide (III) Ratio of Mean | Spring No tide * Ranges Range The periodic lide is less than /4 fast. Reference Station: Subordinate Station: Subordinate Station: Date: 7 Jan 1954 Washington Office Review by (IV): Everett H. Ramey Date: 10/27/54 Final Drafting by (IV): Patricia C. Lach -Date: 12-13-54 Drafting verified for reproduction by (IV): 70.0. Hallum

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 52

Shoreline (More than 200 meters to opposite shore) (III): 26. mi. Shoreline (Less than 200 meters to opposite shore) (III): 8.7 mi.

Control Leveling - Miles (II): 7.0

Number of Triangulation Stations searched for (II):

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): 4

Number of Temporary Photo Hydro Stations established (III): 0 Number of Bench Marks established (II): 4

Remarks:

2

Date:

1 Identified: Recovered:

Identified: Recovered:

Identified: 4

Page 5 35° 30′∭.∕ 76° 30′ 76°30′ 36°,∏, 45/ Phelps Lake T-5567 Bull T-9154 19 15 T-5568 Mattamuskeet L. NORTH CAROLINA, Vicinity of Albemarle Sound TOPOGRAPHIC MAPPING PROJECT T-9156 15571 76° 76**°** PH-45 (49) T-9158 45/ 45/ \bigcirc T-9160 75° 30′ 75° 30′ 36° 35° 30′

Summary to Accompany Topographic Map T-9275

Map T-9275 is one of 18 topographic maps in project Ph-45(49). It covers some shoreline of the Alligator River and the land area to the eastward. It falls in Dare County, North Carolina.

Project Ph-45(49) is a graphic compilation project. Field work in advance of compilation included the establishment of additional horizontal and vertical control complete field inspection, contouring by planetable methods and the investigation of boundaries and geographic names.

Map T-9275 was compiled at a scale of 1:20,000 from single-lens photographs taken in 1949. The map was field edited. After the addition of hydrography the map will be forwarded to the Geological Survey for publication as a standard $7\frac{1}{2}$, topographic map.

Items registered under T-9275 will include a lithographic copy of the map manuscript at a scale of 1:20,000, a color copy of the published map at a scale of 1:24,000 and the Descriptive Report.

FIELD INSPECTION REPORT Quadrangle T-9275 Project Ph-45(49)

Harry F. Garber, Chief of Party

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

Name and Title	Phase	Date
Richard L. McGlinchey Cartographic Survey Aid	Vertical Control Horizontal Control Shoreline Inspection	Jan., 1950 May, 1951 May, 1951
Allen L. Powell Lieut.(jg),USC&GS	Horizontal Control	June, 1951
Matthew A. Stewart Cartographic Survey Aid	Vertical Control (fly levels)	May, 1951

2. AREAL FIELD INSPECTION

Except for a few small open fields in the northwestern corner, the entire area is in its natural state (marsh, swamp, and woodland).

A short stretch of U.S. Highway No. 64 touches the northeastern part of the quadrangle. This, and a dirt road approximately 3 miles long, leading south from it, are the only roads. A sawmill site, known as Buffalo City, is situated near the end of the dirt road.

East Lake School and two churches are within the quadrangle, but the Village of East Lake is west of the area.

* See 555 3. HORIZONTAL CONTROL

All known control stations were searched for and reported on Form 526.

Practically all of the stations have been lost or destroyed, therefore supplemental control was established, along Alligator River, in this and adjacent quadrangles. "Additional Horizontal Control, Ph-45", is the subject of a special report, dated 27 June 1951, a copy of which is a part of the Descriptive Report for quadrangle T-9274.

This control is less than third-order in accuracy. Etz

The stations reported lost are:

BAY POINT 2, 1935
BAY POINT, PROMINENT PINE, 1914
GUS, 1935
MILLTAIL, 1935
MILLTAIL CREEK BEACON, 1914
STUMPY, 1914

Reference Mark No. 2 for STUMPY, 1914, was identified for use of the plot.

4. VERTICAL CONTROL

Control consists of four third-order bench marks, whose designations are B-248, C-248, D-248 and E-248, which are located along U. S. Highway No. 64, and points on a fly level line along the dirt road. All were established by this party.

The first and last designated level points are 75-1 and 75-14. The greatest error of closure was 0.25 foot and no adjustments were made.

5. CONTOURS AND DRAINAGE

In accordance with Bureau Letter No. 711 rs dated 4 October 1950, no attempt was made to establish elevations in the dismal swamps that are so inaccessible. It is recommended that this map be published as a quadrangle type map. Elevations along the roads that are slightly higher than the adjoining land, and elevations in the cultivated areas corroborated by photo interpretation and a visual inspection conclusively prove that none of the land is above five feet, and no five-foot contour exists. (A copy of Bureau letter 711 rs dated 4 October 1950 is attached to Field Inspection Report T-9274.)

Drainage is toward South Lake in the north and Milltail Creek and Alligator River in the south.

6. WOODLAND COVER

This is the subject of a special report covering four quadrangles: T-9275, T-9276, T-9281 and T-9282, submitted by the writer of this report, dated 22 June 1951. Filed with the descriptive report for T-9282.

7. SHORELINE AND ALONGSHORE FEATURES

The shoreline is apparent. That part along Alligator River is foul for a considerable distance offshore with snags, stumps and trees in water. These foul areas have been indicated on the photographs.

The mean high-water line and the low-water line are synonymous. There are no bluffs, cliffs, docks, wharves, piers, landings, submarine cables or other salient shoreline features.

8. OFFSHORE FEATURES

Non-existant.

9. LANDMARKS AND AIDS

There are no landmarks for charts. The location of non-floating Aids to Navigation is covered by a special report "Special Report on the Location of Non-Floating Aids to Navigation, Alligator River, North Carolina", a copy of which is a part of the report for quadrangle T-9157. No aids on this map. Etta

There is a steel fire tower, 130 feet high, near the East Lake School, but due to the surrounding tall pine trees, it is visible for only a short distance.

10. BOUNDARIES, MONUMENTS AND LINES

This is the subject of a special report submitted by Mr. Richard L. McGlinchey, Cartographic Survey Aid, dated June, 1950. Filed in Div. of Photogrammetry under project data. Eth. 11. OTHER CONTROL

In accordance with Supplement Two to the Instructions, no other control was established, except as discussed under item 3.

12. OTHER INTERIOR FEATURES

Roads and buildings were classified in accordance with the Topographic Manual.

13. GEOGRAPHIC NAMES

This will be the subject of a special report for the project to be submitted at a later date. Report is by Merle W. Smith and is filed in the Geographic Names Section. Div. of Charts. Etc. 14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

See items 3, 6, 9, 10 and 13.

7 August 1951 Submitted by

George E. Varnadoe Cartographic Engineer

8 August 1951 Approved by:

Harry F. Karber
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.

MAP T9275		PROJEC	PROJECT NO. Ph-45(49)	SCALE OF MAP 1:20,000	SCALE FACTOR	CTOR.
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	N.A. 1927 - DATUM DATUM FROM GRID OR PROJECTION LINE IN METERS FORWARD GBACK)	FACTOR DISTANCE LINE FROM GRID OR PROJECTION LINE IN METERS K) FORWARD (BACK)
CYPRESS,1914	East *	N.A. 1927	35 48 44.181 75 59 38.202		1,361.7 (48 959.1 (51	487.5) 547.2)
STUMP RM 2, 1914	Comp		35 45 25.430 75 59 25.737		783.8 (1,065.4 646.6 (860.8	,065.4J) 860.8J)
GLAD, 1951	Photostat P.C.	=	친쳤	1,791.67 (8,208.33)	Topo Sta.	
LUCK, 1951	#	#	785,876,64	(ξη·058,ξ) γδ.εμι,μ (ξη·058,ξ) γς.εμι,μ	Topo Sta.	
BURN, 1951	*	z	748,261.07 2.894.000.19	8,261,07 (1,738,93) h.000,19 (5,999,81)	Topo Sta.	
	X N.C. G.P.					
		I				
1 FT. = 3048006 METER COMPUTED BY. I. S. Z. S.	Saperatei	ļ	DATE 30 August 1951	CHECKED BY. M. M. SLAYNBY		M-2369-12

COMPILATION REPORT T-9275

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-9158.

31. <u>DELINEATION</u>.

Compiled by graphic methods.

32. CONTROL.

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

33. SUPPLEMENTAL DATA.

None used.

34. CONTOURS AND DRAINAGE.

Reference Item 5.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was adequate.

36. OFFSHORE DETAILS.

No statement.

37. LANDMARKS AND AIDS.

Reference Item 9. None.

38. CONTROL FOR FUTURE SURVEYS.

Forms 524 are submitted for four (4) recoverable topographic stations. Those useful to the hydrographer are listed under Item 49. Stations BURN-1951, GLAD-1951 and LUCK-1951 were plotted from plane coordinates furnished by the Washington Office. Their geographic positions were scaled, not computed.

39. JUNCTIONS.

Junction was made with T-9157 on the north. Junction was made with T-9176 on the east. Junction was made with T-9281 on the south. Junction was made with T-9274 on the west.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

See \$46

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with USC&GS Planimetric Map T-5570, See 5625363 MILLTAIL CREEK, scale 1:20,000, edition of May 1935. Agreement was fair.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with Nautical Chart 1228, scale 1:80,000, dated May 1937, corrected to 31 August 1951, and Chart 831, scale 1:40,000, dated May 1937, corrected to 4 December 1950. Agreement was fair.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Charles J. Downing Carto. Photo Aid

APPROVED AND FORWARDED:

J. E. Waugh, Chief of Party

49. NOTES FOR THE HYDROGRAPHER.

Following is a list of recoverable topographic stations which may be useful to the hydrographer:

BURN - 1951

GLAD - 1951

LUCK - 1951

These stations are near the shoreline, on the east bank of the Alligator River, and are fronted by an area, approximately one hundred and fifty meters wide, which is foul with stumps and logs. This foul area extends the entire length of the quadrangle, (Register Number T-9275).

51. METHODS

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

Field edit data appears on the field edit sheet, discrepancy print, and in this report.

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

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. See 566
Refer to item 5 - Descriptive Report - relative to vertical accuracy.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

It is believed that Mr. C. W. Tatem, registered 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. EAST LAKE SCHOOL has been abandoned. The building remains. Delete the name.
- 2. SANDY RIDGE should be added to the names list. See the field edit sheet for proper placement of name.

56. OTHER INTERIOR FEATURES

All features labeled "Dismantled R.R." have been deleted. These features are of a temporary nature only. After these tram lines

(dismantled railroads) have served the purpose of the lumber companies who build them, the rails are removed and the lines soon become covered with vegetation.

57. JUNCTIONS

Satisfactory junctions have been made with all adjacent contemporary quadrangles.

> 11 March 1953 Submitted by:

James E. Hundle James E. Hundley,

Cartographer

25 March 1953 Approved by:

Paul Taylor Lt. Comdr., USC&GS

Chief of Party

50.

PHOTOGRAMMETRIC OFFICE REVIEW T-9275

1. Projection and grids RD 2. Title RD 3. Manuscript numbers RD 4. Manuscript size RD
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) RD 7. Photo hydro stations XX 8. Bench marks RD
9. Plotting of sextant fixes XX 10. Photogrammetric plot report RD 11. Detail points RD
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline RD 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 PD 19. Other along -
shore cultural features RD
PHYSICAL FEATURES
20. Water featuresRD 21. Natural ground coverRD 22. Planetable contoursRD 23. Stereoscopic
instrument contours XX 24. Contours in general RD 25. Spot elevations RD 26. Other physical
features RD
CULTURAL FEATURES
27. Roads RD 28. Buildings RD 29. Railroads RD 30. Other cultural features RD
BOUNDARIES
31. Boundary lines RD 32. Public land lines XX
MISCELLANEOUS 33. Geographic names RD 34. Junctions RD 35. Legibility of the manuscript RD 36. Discrepancy
33. Geographic names 34. Junctions 35. Legibility of the manuscript 35. Discrepancy
overlay RD 37. Descriptive Report RD 38. Field inspection photographs RD 39. Forms RD 40. Rudolph Dossett Milton M. Blavney Milton M. Slavney Willow VM. Slavney
40. Rudol ph Dossett Supervisor, Review Section or Unit
Jesse. A. Giles Justilles Supervisor, Review Section or Unit Al. Remarks (see attached sheet)
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. Were added by Tampa office. EAR.
Compiler Supervisor

T-9275.

Geographic Names.

· North Carolina Dare County East Lake Township U.S. 64 Alligator River V . Stumpy Point / - Cypress Point Milltail Creek Bay Point

East Lake Church East Lake School

· Buffelo City -. Sawyer Lake

Buzzard Roost

(locality, not a settlement)

. Sandy Ridge Gut , Raccoon Point

· Boat Bay

Halfway Point Long Stretch

Beach Land Landing

Names underlined in red are approved. A 9-9-52

History of Hydrographic Information

for T-9275

Hydrography was added to the map manuscript for T-9275 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 surveys:

H-5913 1:20,000 1935 H-5914 1:10,000 1935

Comparison was also made with Nautical Chart 831, 1:40,000, 1952, corrected to 52-1/14.

Hydrography was compiled by Everett H. Ramey on 1 March 1954 and verified by O. Svendsen.

Everett H. Ramey



SURVEY NO. <u>9275</u>

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6-20-62	831	Knoap	Complete Application Before After Verification and Review
6-20-62	1558	Knoop	Complete Application Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
1-			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			
	 		
			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.