9155



けらい

Diag. Cht. No. 1228-3

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-9155

LOCALITY

State North Carolina

General locality Albemarle Sound

Locality Columbia

CHIEF OF PARTY

Harry F. Garber, Chief of Field Party

LIBRARY & ARCHIVES

J. E. Waugh, Tampa Photogrammetic Office

DATE October 6, 1955

B-1870-1 (1)

T

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 Sept. 1949 Copy filed in Division of

19 Jan. 1950 (Supplement One) Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III): Inapplicable

Scale Factor (III): None OCT 6 1982

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV): 0CT - 9 1952

Applied to Chart No. Date: Date registered (IV): AUG 19 1955

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N. A. 1927 Vertical Datum (III): 4. 5. 2

Mean sea level except as follows:

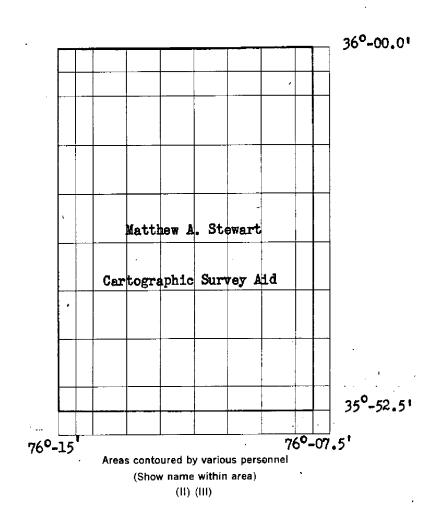
Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): DEBT, 1933

Lat.: 35° 59° 41"471 (1278.2m.) Long.: 76° 08° 57"850 (1449.0m.) Adjusted

Plane Coordinates (IV): Lambert State: N. Car. Zone:

Y= X=



Form T-Page 2

DATA RECORD

Field Inspection by (II): Matthew A. Stewart, Cart. Surv. Aid Date: Feb.-Mar. 1951
Henry R. Spies, Cart. Surv. Aid

Planetable contouring by (II): Matthew A. Stewart, Cart. Surv. Aid Date: Feb.-Mar. 1951

Completion Surveys by (II): James E Hundley Date: Feb. 1953

Mean High Water Location (III) (State date and method of location): Identified on 1949 photographs

March 1952 - Air Photo Compilation

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

Date: 20 June 1951

Projection and Grids checked by (IV): L. B. C. (W.O.)

Date: 20 June 1951

Control plotted by (III): R. J. Pate Date: 30 July 1951

Control checked by (III): I. I. Saperstein Date: 2 August 1951

Planimetry Date:

Stereoscopic Instrument compilation (III): Inapplicable
Contours Date:

Contours Date:

Manuscript delineated by (III): W. W. Dawsey Date: 20 May 1952

Photogrammetric Office Review by (III): J. A. Giles Date: 19 September 1952

Elevations on Manuscript Date:

checked by (M) (III): J. A. Giles 16 September 1952

Camera (kind or source) (III): Fairchild Cartographic 6" Metrogon Lens Camera "O" USC&GS Nine-lens Camera 81 focal length

		PHOTOGRAPHS (III)	, x - 1 x x s	
Number	Date	Time	Scale	Stage of Tide
19-0-1856-61	incl. 6 Dec.1949	11:54-11:59 incl.	1:20,000	None
49-0-1844-48		11:43-11:47 incl.	. 11	tt .
49-0-1824	tt tt	11:23	ii .	n n
49-0-1823	ú	11:23	11	
49-0-1822	ti ti	11:21	It .	11
49-0-1821	11	11:21	11	
33201	17 Mar.1951	13168	11	ii ii
33213		13:07	"	n
33214	. "	13:08	H .	"

Tide (III)

None Less than & foot

Recovered:

Recovered:

Reference Station:

Subordinate Station: Subordinate Station:

Washington Office Review by (IV): Leva J. Stev

Final Drafting by (IV): P.C. Lach

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

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

Shoreline (More than 200 meters to opposite shore) (III): 8

Shoreline (Less than 200 meters to opposite shore) (III): 2.2 Control Leveling - Miles (II): 26.1 Fly Levels

* Number of Triangulation Stations searched for (II): 11 Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): 3

Number of Temporary Photo Hydro Stations established (III): none Number of Traverse Stations Established (11): 2

Remarks:

* Includes USED Traverse Stations. In addition, one control point was located by traverse and identified on the photographs.

Ratio of Ranges	Mean Range	Spring Range

Date: 17 June 1954

Date: 3/15/55

Date:

Date:

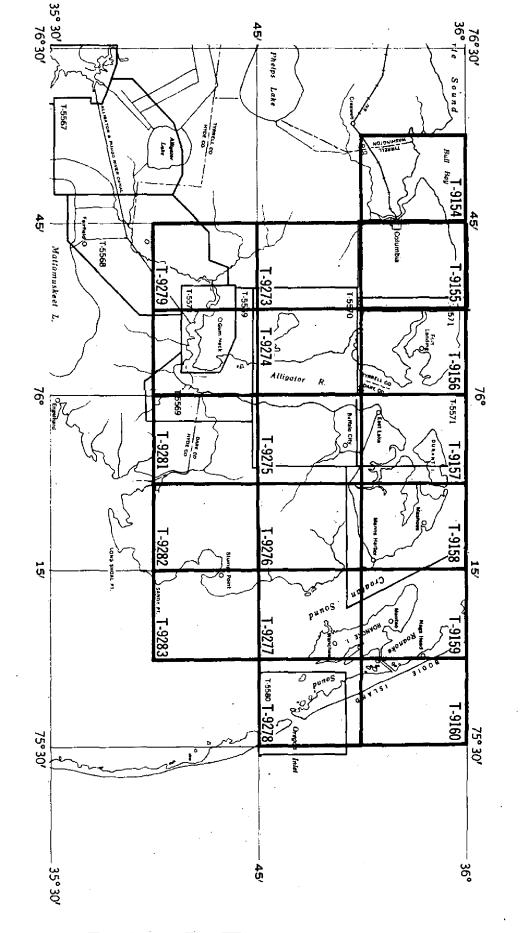
Identified: 3

Identified:

PH-45 (49)

TOPOGRAPHIC MAPPING PROJECT

NORTH CAROLINA, Vicinity of Albemarle Sound



Topographic map T-9155 is one of eighteen similar maps of 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 the 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-9155 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. With the addition of hydrographic information, 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-9155 will include a clothmounted 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-9155 Project Ph-45(49)

Harry F. Garber, Chief of Party

The field work for this quadrangle was done during the winter of 1950-51, in accordance with Instructions, dated 15 September 1949 and Supplement One, dated 19 January 1950, under the direction of George E. Varnadoe, Supervisor, and Harry F. Garber, Chief of Party.

In addition to the phases listed on pages 2 and 3, field work was done by the following personnel:

Name and Title	<u>Phase</u>	<u>Date</u>
Richard E. Conway, Jr. Cart. Surv. Aid	Horizontal & Vertical Control Recovery and Identification	Nov. 1950
Richard L. McGlinchey Cart. Surv. Aid	Horizontal Control Recovery and Identifi- cation, Shoreline Inspection. Traverse	Jan. & Apr., 1951

2. AREAL FIELD INSPECTION

The salient features of the quadrangle are: the eastern part of the incorporated town of Columbia, and a portion of the Albemarle Sound.

The industries are agriculture, lumbering and fishing.

The area is low and for the most part heavily wooded with dense swamps adjacent to the drains. Only about ten per cent is under cultivation. These small scattered farms are along, or on, the higher ridges and knolls.

It is believed that no part of the field inspection is substandard.

Refer to heading 6 for marginal swamp land, which is peculiar to this area.

3. HORIZONTAL CONTROL

- (a) Reference is made to this item in the report for quadrangle T-9154 for supplemental control established.
 - (b) No datum adjustments were made by the field party.
- (c) Traverse stations established by the USED in 1942 were used along with USC&GS control throughout the project.
- (d) A sufficient number of stations were identified to satisfy the project instructions.
- (e) All known horizontal control was searched for and reported on form 526. One USC&GS station, namely "PAL, 1909", which was reported destroyed in 1933, and was replaced the same year by "DEBT, 1933", has been reported as not recovered on form 526.
- (f) All stations identified are positive and all useful information is noted on the identification cards.

4. VERTICAL CONTROL

(a) Third order bench marks were established by this party along N. C. Highway 94 in 1948, and along U. S. Highway 64 in 1950. The adjusted elevations of the bench marks were used. Listed, are the bench marks:

L-245	V-248
M-245	W-248
S-248	X-248
T-248	Y-248
TI-2/8	

- (b) Fly levels were run to establish supplemental control (spot elevations) for contouring. These fly levels originated and were terminated on third order bench marks or on spot elevations that were previously established from third order bench marks. The greatest error of closure was 0.37 foot. Adjustments were made on all lines where the closure exceeded 0.3 foot according to the number of instrument set-ups.
- (c) The first and last designated level points (spot elevations) are 55-1 and 55-50.
 - (d) Inapplicable.

5. CONTOURS AND DRAINAGE

Contouring was by plane-table methods directly on the field photographs at a contour interval of 5 feet. Elevations ranged from one to fourteen feet.

The drainage is along man-made ditches and canals and flows toward the Albemarle Sound and Scuppernong River.

6. WOODLAND COVER

Classified in accordance with tepographic manual, part II.

Inasmuch as a large percentage of the cover is marginal swamp it was inspected at determinative places to differentiate between swamps and woodland, and the line of demarcation was then extended, by use of the stereoscope, through inaccessible areas.

7. SHORELINE AND ALONGSHORE FEATURES

Due to the rapid erosion of the shore along Albemarle Sound the shoreline is foul with trees and stumps from the shore to a line, from one hundred to about three hundred and fifty feet, offshore. This foul area has been indicated and labeled on the photographs.

- (a) Except for shore stretches at the mouths of drains where the shoreline is apparent, the mean high-water line is along a low bluff where sand has been deposited by wave action. Both the mean high-water line and apparent shoreline are adequately indicated on the photographs by symbols and labels.
- (b) There is no periodic perceptive tidal change in Albemarle Sound therefore the mean high-water line and low-water line are synonymous.

 ** Less than 1/2 foot.
 - (c) Inapplicable.
- (d) The bluffs, as stated above, are low (below five feet) therefore would not be recognized as such.
 - (e) Two piers which are in ruins are indicated on the photographs.
 - (f) There are no submarine cables within the quadrangle.
- (g) Except for a cluster of piles, indicated on photograph 49-0-1859, which probably is all that remains of an old pier, there are no other alongshore features.

8. OFFSHORE FEATURES

None exist.

9. LANDMARKS AND AIDS

No landmarks for nautical charts, interior landmarks, outstanding interior features, aeronautical aids or aids to navigation exist within the limits of the quadrangle.

10. BOUNDARIES, MONUMENTS AND LINES

This is the subject of a special report submitted by Mr. Richard L. McGlinchey, dated June, 1950. Filed in Division of Photogrammetry under project data. See also 56, Field Edit Report.

11. OTHER CONTROL

Listed are the recoverable topographic stations established:

Eric, 1951 Gable, 1951 Hyde, 1951

12. OTHER INTERIOR FEATURES

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

The western terminal for the Alligator River Ferry has been changed from Fort Landing to Sandy Point and a new road was constructed from Columbia to Sandy Point.

The route of U. S. Highway 64 was changed from the Fort Landing Road to the Sandy Point Road, and formerly what was route 64 is now known only as the Fort Landing Road.

13. GEOGRAPHIC NAMES

This will be the subject of a special report for the project, which will be submitted at a later date.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Chart sections, with revisions, will be submitted with quadrangle T-9156 for that part of the project west of Croatan Sound.

22 April 1951 Submitted by:

George E. Varnados George E. Varnados Cartographic Engineer

25 May 1951 Approved by:

Harry E. 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.

Photogrammetry

MAP T. 9155			PROJECT NO. Ph-45(49	l ₁ 9)	SCALE OF MAP]	1:20,000	SCALE FACTOR	R -
STATION	SOURCE OF INFORMATION (INDEX)		LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
DEBT, 1933	Fort Landing Quad	N. A. 1927	35 59 ltl. 76 08 57	41.471 57.850			1,278.2 (571.1) 1,449.0 (53.9)	
PIPE STATION G-1, 1942 (USE)		£	35 55 h3.	13.651 52.477			1,315.4 (503.9)	
PIPE STATION H-1, 1942 (USE)	u · (ŧ	35 57 58, 76 13 58,	58.950 58.258			1,816.9 (32.4) 1,459.8 (43.6)	
PIPE STATION H-2, 1942(USE)		ŧ	35 58 09. 76 13 37.	37.744			302.3 (1,546.9)	
PIPE STATION J-1, 1942(USE)		2	59	08.600 20.884			265.1 (1,584.2) 523.1 (979.9)	
PIPE STATION J-2, 1942 (USE)	=	*		13.710			1,325.4 (1,426.7)	
SG 31, 1951	P.C. Pge 235	#	785 <u>, 121</u> , 78 2,822,322,95		5,421,78 (4,578,22) 2,322,95 (7,677,05)			
SG 32, 1951	=	=	787,389.40 2,821,300.21					
CONTROL PT. 8 (SG TRAV)	Comp	#	788,147,65		8,147,65 (1,852,35)			
1 FT = 3048008 METER COMPUTED BY:	Saperste		рате 21 June 1951		CHECKED BY: R. J. Pate	Pate.	DATE 1 AUGUST 1951	M-2388-12

COMPILATION REPORT T-9155

PHOTOGRAMMETRIC PLOT REPORT.

This report submitted with T-9158.

31. DELINEATION.

The graphic method was used.

The single-lens photographs furnished for the delineation were not used except along the eastern margin because of poor scale. Two nine-lens photographs were used as they were of better scale and they were much clearer insofar as the vast swamp areas were concerned. Minor changes were made along the swamp limits due to the clarity of these nine-lens prints. A few additional features appeared on these prints because they were of a more recent date. The field inspection generally appeared complete.

32. CONTROL.

The placement of primary and secondary control points was such that no difficulty was encountered in the establishment of additional control.

33. SUPPLEMENTAL DATA.

Reference Item 14.

34. CONTOURS AND DRAINAGE.

No difficulty was encountered in the compilation of contours and drainage.

35. SHORELINE AND ALONGSHORE DETAILS.

Reference Item 31.

The shoreline inspection was adequate and has been shown as depicted by the field inspector. No unusual alongshore details were noted. The high-water and low-water lines were synonymous. There is no perceptible tide. (ne periodic Tide is less than & foot)

36. OFFSHORE DETAILS.

No statement.

37. LANDMARKS AND AIDS.

None.

38. CONTROL FOR FUTURE SURVEYS.

Three (3) recoverable topographic stations are being submitted which may be of use to the hydrographer. They are listed under Item 49.

39. JUNCTIONS.

T-9156 on the east is in agreement. T-9273 on the south is in agreement. T-915h on the west is in agreement. No contemporary survey to the north.

40. HORIZONTAL AND VERTIGAL ACCURACY.

No statement. See 66 of Review Report

41. BOUNDARIES.

All boundaries have been plotted graphically from plats attached to the "Special Boundary Report". Proportional dividers were used to take distances from projection lines. See also 5%, Field Ed. tReport.

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with U. S. E. Quadrangle, COLUMBIA, N.C., 1:125,000 scale, 1942. See Review Report, 63

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Chart 1228, 1:80,000 scale, May 1937, corrected to 31 August 1951. There were no major differences. See 65, Review Report.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Webber W. Dawsey, Carto. Photo. Aid

APPROVED AND FORWARDED:

J. E. Waugh, Chief of Party

49. NOTES FOR THE HYDROGRAPHER.

The following topographic stations are for use by the hydrographer.

HYDE - 1951

ERIC - 1951

GABLE - 1951

There is an area foul with stumps extending into Albemarle Sound forty meters. This area is along the south shore, the full extent of Quadrangle T-9155.

48. GEOGRAPHIC NAME LIST.

ALBEMARLE SOUND ALLIGATOR TOWNSHIP

BIG SAVANNAH

COLUMBIA COLUMBIA TOWNSHIP CRANBERRY ISLAND

DEWEY PIER DILLON RIDGE

FORT LANDING ROAD FREEWILL CHURCH

* JERRY

LEVELS -· LITTLE ALLIGATOR RIVER

MALACHI CHURCH MILLS RIDGE MISSIONARY CHURCH

NEWFOUNDLAND NORTH CAROLINA

PALMETTO POINT PLEASANT VIEW

· RIDERS CREEK

- 2 words in numes report Fiersays one word SANDY POINT ROAD · SECOND CREEK SHIP POINT STATE 94 (See note on Name Sheet)

U. S. 64

Tyrrell County V

Names underlined in red are approved 10-27-52 Based on project Hames Report.

FIELD EDIT REPORT Project Ph-45(49) Quadrangle T-9155

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 photograph 49-0-1820, and in this report.

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. See 66, Review Report

53. MAP ACCURACY See 66 Review Report

The horizontal accuracy of the map detail is relatively good.

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

Contour corrections were made in the vicinities of Mills Ridge, Pleasant View and Sound Side.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

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

GEOGRAPHIC NAMES

Refer to item 48 - Compilation Report.

- 1. FORT LANDING ROAD Name and placement is correct.
- 2. SANDY POINT ROAD Name and placement is correct.
- 3. MALACHI CHURCH Change to MALACHI'S CHAPEL.

56. BOUNDARIES

Refer to item 10 - Field Inspection Report.

- 1. Town Limits of Columbia, N. C. The corrected boundary of this incorporated town is shown on field photograph 49-0-1820. The limits, in violet ink, indicated on the photograph, were verified by the mayor, Mr. Paul Liverman, of the Town of Columbia, N. C. The legal description should be disregarded, in view of the fact that it does not wholly agree with the actual limits.
- 2. Columbia Alligator Townships According to local county officials this township line is correct as indicated. These township lines are not surveyed; they are arbitrarily placed on a county map by the Board of County Commissioners.

57. DRAINAGE

Refer to item 5 - Descriptive Report.

Additional main drainage ditches have been shown on the field edit sheet. All "feeder" ditches have been deleted.

58. OTHER INTERIOR FEATURES

Refer to item 12 - Field Inspection Report.

All features labeled and symbolized (Dismantled R.R.) have been deleted. These tram lines (dismantled R.R.) are of a temporary nature only. After they have served the purpose for which they are constructed, the rails are removed and the lines soon become covered with vegetation.

Additional buildings have been shown on the field edit sheet.

JUNCTIONS

Satisfactory junctions have been made with all adjacent contemporary quadrangles.

16 February 1953 Submitted by:

James E. Hundley, A. Cartographer

25 March 1953 Approved by:

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

M-2623-12

50.

43. Remarks:

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9155

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
PHYSICAL FEATURES 20. Water features <u>J.G.</u> 21. Natural ground cover <u>J.G.</u> 22. Planetable contours <u>J.G.</u> 23. Stereoscopic instrument contours <u>XX</u> 24. Contours in general <u>J.G.</u> 25. Spot elevations <u>J.G.</u> 26. Other physical features <u>J.G.</u>
CULTURAL FEATURES 27. Roads <u>J•G•</u> 28. Buildings <u>J•G•</u> 29. Railroads <u>J•G•</u> 30. Other cultural features <u>J•G•</u>
BOUNDARIES 31. Boundary lines J.G. 22. 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 39. Forms J.G. 40. Jesse F.G. 39. 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 supply have been applied to the manuscript. The
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

History of Hydrographic Information for T-9155

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 lowwater datum and originate with the following:

Hydrographic Survey:

H-3732

1:30,000

1915

Hydrography was compiled by Everett H. Ramey on 16 September 1954 and verified by O. Svendsen on 22 September 1954.

Everett H. Ramey

Review Report Topographic Map T-9155 17 June 1954

62. Comparison with Registered Topographic Surveys:

T-246

1:20.000

1848

Because of numerous changes in culture and of erosion of shoreline, T-9155 supersedes the older surveys for charting purposes throughout the area covered by the present survey.

63. Comparison with Maps of Other Agencies .-

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

A visual comparison reveals a general agreement.

64. Comparison with Contemporary Hydrographic Surveys.

The latest hydrographic survey was made in 1915-17. No comparison was made.

65. Comparison with Nautical Charts .-

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

Remarks under 62 above also apply to the chart for the area of T-9155.

66. Accuracy. This map meets the National Standards of Map Accuracy and complies with project instructions.

Reviewed by:

APPROVED

Div. of Photogrammetry

Chief, Div. Photogrammetry

Chief, Div. of Coastal Surveys

Chief, Nautical Chart Branch

Division of Charts

NAUTICAL CHARTS BRANCH

SURVEY NO. 9155

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6-19-62	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
			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
		,	

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.