

8724

Diag. Cht. No. 538 & 1231-2 & 1110

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Ph-5(15) Office No. T-8724

LOCALITY

State NORTH CAROLINA

General locality PAULICO COUNTY

Locality NEUSE RIVER

194 g

CHIEF OF PARTY

R. J. Sipe, Chief of Field Party.

R. A. Gilmore, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE March 4, 1952

8724

DATA RECORD

T- T-8724

Quadrangle (II):

Project No. (II): Ph-5(45)

Field Office: Washington, N.C. Chief of Party: Riley J. Sipe

Compilation Office: Tampa, Fla. Chief of Party: Ross A. Gilmore

Instructions dated (II III): Undated

Copy filed in Descriptive
Report No. T- (VI)*Division of Artillery.
Review Sec. files.*

Completed survey received in office:

*11-22-48*Reported to Nautical Chart Section: *11-30-48*Reviewed: *Aug. 24, 1950* Applied to chart No.

Date:

Redrafting Completed:

Registered: *5 Feb 1952*

Published:

Compilation Scale: 1: 20,000

Published Scale: *1:24,000*

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): M.S.L.

Reference Station (III): NEUSE RIVER BN., 1933

Lat.: 35° 05' 20.009" (616.6m)

Long.: 76° 32' 56.165" (1422.7m)

Adjusted
~~Unadjusted~~

State Plane Coordinates (VI):

NORTH CAROLINA STATE GRID

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
15919	Apr. 1, 1946	12:39	1: 20,000	No perceptible tide
15920	"	12:40	"	in this area
15957✓	Apr. 5, 1946	13:21	"	"
15958	"	"	"	"
15966✓	"	13:30	"	"

Tide from (III): No tide

Mean Range:

Spring Range: No tide

Camera: (Kind or source) U.S. C. & G.S. 9-lens 8 $\frac{1}{4}$ " focal length

Field Inspection by: M.A. Stewart
E.T. Jenkins

date: June 16-30, 1948
Aug. 22, 1947-Apr. 12, 1948

Field Edit by: *Cecil Navin*

date: *22 May 1950*

Date of Mean High-Water Line Location (III): ^{Aug. 22, 1947}
April 12, 1948

Projection and Grids ruled by (III) H.K. (W.O.)

date: Nov. 17, 1947

" " " checked by: T.L.J. (W.O.)

date: Nov. 17, 1947

Control plotted by: R.A. Reece

date: Dec. 8, 1947

Control checked by: I.I. Saperstein

date: Dec. 18, 1947

Radial Plot by: M.M. Slavney

date: Sept. 15, 1948

Detailed by: R.A. Reece

date: Oct. 1948

Reviewed in compilation office by: J.A. Giles

date: Oct. 1948

Elevations on ~~Field Edit Sheet~~ Map Manuscript
checked by: J.A. Giles

date: Oct. 1948

STATISTICS (III)

Land Area (Sq. Statute Miles): 8.4

Shoreline (More than 200 meters to opposite shore): 17 Statute miles

Shoreline (Less than 200 meters to opposite shore): 16 " "

Number of Recoverable Topographic Stations established: 5

Number of Temporary Hydrographic Stations located by radial plot: None

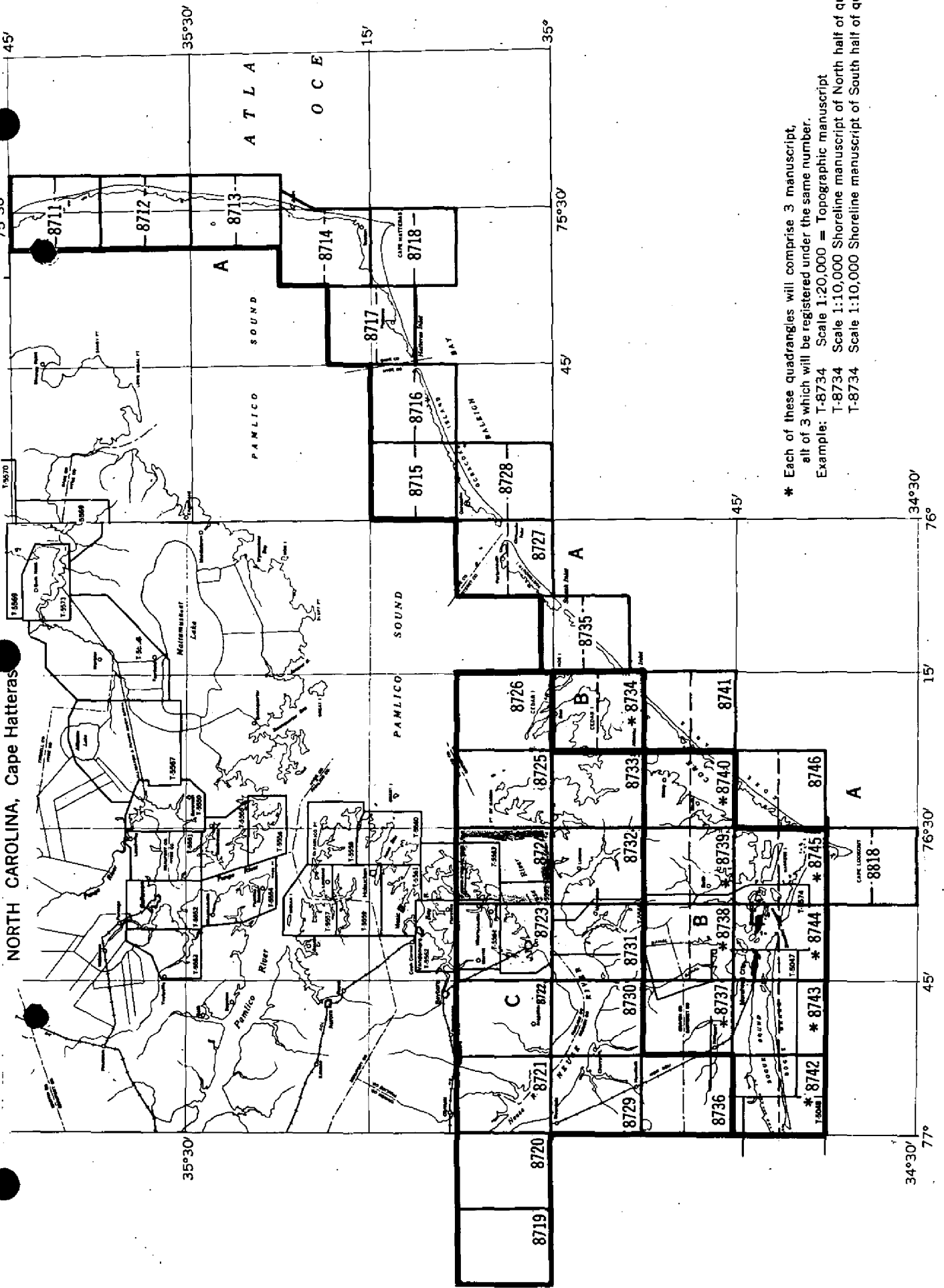
Leveling (to control contours) - miles: 4

Roman numerals indicate whether the item is to be entered by
(II) Field Party, (III) Compilation Party, or, (VI) the Washington
Office.

When entering names of personnel on this record give the surname
and initials, not initials only.

Remarks:

TOPOGRAPHIC AND SHORELINE MAPPING PROJECT PH-5 (45) A-B-C



* Each of these quadrangles will comprise 3 manuscript, all of 3 which will be registered under the same number.
 Example: T-8734 Scale 1:20,000 = Topographic manuscript
 T-8734 Scale 1:10,000 Shoreline manuscript of North half of quad.
 T-8734 Scale 1:10,000 Shoreline manuscript of South half of quad.

Summary Report to Accompany T-8724

Topographic Map

T-8724 is one of a series of 37 7½-minute quadrangles in project Ph-5(45) in North Carolina, and covers an area in the vicinity of Broad Creek and Turnagain Bay on the Neuse River. T-8724 falls almost entirely on the northwest side of the Neuse River with a small portion near Turnagain Bay.

The land area is on low ground and is marsh for the most part with the highest elevation near 7½ feet. Cultivation is confined to the higher ground and is drained by numerous small ditches which empty into the many small creeks and tributaries of Broad Creek.

The field work was accomplished in the summer of 1948 by personnel under the direction of Riley J. Sipe, the radial plot and compilation in Tampa in the fall of 1948, and field edit in May 1950.

The several mapping operations were:

- (a) Nine-lens aerial photography and laboratory processing at 1:20,000 scale.
- (b) The field survey included shoreline inspection, recovery of horizontal control, establishment of supplemental vertical and horizontal control, plane-table contouring annotation of the field photographs and geographic names investigation.
- (c) Compilation by graphic methods
- (d) Preliminary office inspection (W.O.)
- (e) Field check and edit of finished manuscript.
- (f) Final review of the map manuscript to ensure completeness of and conformance with specifications, and to include corrections and additions by the field check and completion survey.
- (g) Processing - a 1:20,000 scale glass plate negative will be prepared for transmittal to the Geological Survey.

T-8724 will be published and distributed by the Geological Survey at 1:24,000 scale as a standard topographic quadrangle in accordance with an Agreement of March 25, 1947.

Data pertaining to T-8724 will be filed and may be obtained as follows:

(a) Filed in the Division of Photogrammetry.

1. T-8724, 1:20,000 scale manuscript (acetate original) field edit and final review corrections applied.
2. Duplicate descriptive report.
3. Form 524 topo station description cards (5).
4. Form M-2226-12, pricking cards for photo identification of horizontal control used in the radial plot (2).
5. Field edit sheet.
6. One set each of field and office photographs.

(b) Filed in the Coast and Geodetic Survey Archives.

1. One 1:20,000 scale cloth-backed lithographic print of map manuscript T-8724 and the original descriptive report will be registered.
2. When T-8724 is published a cloth-backed copy of the published map at a scale of 1:24,000 will also be registered.

FIELD INSPECTION REPORT
T-8724
Project Ph-5(45)
(35-00/ 76-30/7.5)
Riley J. Sipe, Chief of Party

All phases of field work were done in accordance with the Director's Instructions, Project Ph-5(45), Field, undated; Supplement No. 1 to the above, dated 11 November 1946; and other applicable instructions as herein noted.

The various phases of the field work were done by the following personnel:

<u>Name & Title</u>	<u>Phase</u>	<u>Dates</u>
Matthew A. Stewart Engineering Aid	Levels Contours & Interior, Field Inspection	5/4/48 - 5/4/48 6/16/48 - 6/30/48
E. T. Jenkins Engineering Aid	Horizontal Control Recovery Shoreline	3/23/48 - 4/15/48 8/22/47 - 4/12/48

1. DESCRIPTION OF THE AREA

The area covered by this quadrangle is located in ^{Carteret and} Pamlico Counties, N. C. There are no villages in this quadrangle. The Neuse River covers the greater portion of the quadrangle.

The land area is mostly wooded, with pines predominating. The ^{northern} section of the quadrangle is swampy, and this area is the ^{drainage} source of several of the larger streams.

Transportation facilities consist of ^{two} ~~only one~~ roads in the quadrangle. ^{one} ~~It~~ is on the west ^{side} of the quadrangle and is passable at all times. One road in ^{the} ~~Southeastern~~ ^{Western} section of the quadrangle is impassable in wet weather.

2. COMPLETENESS OF FIELD INSPECTION

The field inspection is believed to be adequate and complete to date.

Woodland cover was classified in accordance with Photogrammetry Instructions, No. 15, dated 16 June 1947.

3. INTERPRETATION OF THE PHOTOGRAPHS

Little difficulty in interpretation of the photographs was encountered.

4. HORIZONTAL CONTROL

All horizontal control was recovered or searched for and a sufficient number of stations were identified for the control of the radial plot.

5. VERTICAL CONTROL

There are no existing bench marks in this quadrangle. Four miles of fly levels were run to furnish supplemental control for contouring.

6. CONTOURS AND DRAINAGE

Contouring was done on photographs of 1:20,000 scale by plane-table. Heavy woods and swampy ground hindered contouring in many places.

See item 56

The highest ground exists along the ^{north} west side of the quadrangle. This ground, with the exception of a few sand ridges, is swampy. The water level recedes during the dry summer months.

Broad Creek and Spring Creek are the largest streams draining this ~~swamp~~ ^{area}. Broad Creek flows southeast to the Neuse River and Spring Creek flows northeast to the Bay River.

Minor drainage was located by planetable and in some places delineated under the stereoscope.

7. MEAN HIGH WATER LINE

There is no perceptible periodic tide in the Neuse River. *Perceptible* ~~are~~ changes in water level ^{are} caused by wind.

8. LOW WATER LINE

The mean low water line is ^{coincident} ~~synonymous~~ with the M.H.W.L. because of ~~there being~~ ^{no} ~~perceptible~~ periodic tide.

9. WHARVES AND SHORELINE STRUCTURES

Adequately covered by the photographs

10. DETAILS OFF SHORE FROM THE M.H.W.L.

Adequately covered by the photographs.

11. LANDMARKS AND AIDS TO NAVIGATION

All fixed aids to navigation were either identified on the photographs or located by cuts with a theodolite and reported on Form 567.

12. HYDROGRAPHIC CONTROL

Existing horizontal control was supplemented with recoverable topographic stations at the desired interval.

13. LANDING FIELDS AND AERONAUTICAL AIDS

There are no landing fields or aeronautical aids in this quadrangle.

14. ROAD CLASSIFICATION

All roads were classified in accordance with Photogrammetry Instructions No. 10, dated 14 April 1947.

15. BRIDGES

There were no bridges in this quadrangle.

16. BUILDINGS AND STRUCTURES

Adequately covered on the photographs.

17. BOUNDARY MONUMENTS AND LINES

See Special Report on Boundaries for Project Ph-5(45) which was forwarded to the Washington Office on 20 October 1947 by A. J. Wraight, Topographic Engineer. *Division of Photogrammetry
General office files*

18. GEOGRAPHIC NAMES 411 ✓

See Special Report on Geographic Names for Project Ph-5(45) which was forwarded to the Washington Office on 13 October 1947.

by A. J. Wright, Topographic Engineer. *Filed in Geographic
Names Section.*

Date:
Submitted:

Matthew A. Stewart
Engineering Aid
Matthew A. Stewart

Date:
Approved

Riley J. Pipe
Riley J. Pipe
Chief of Party *✓*

[illegible]

COMPILATION REPORT
TO ACCOMPANY
QUADRANGLE T-8724

26. AND 27. CONTROL AND RADIAL PLOT:

These are the subject of a special report (plot number 7) submitted by M.M. Slavney, Photogrammetric Engineer, on November 13, 1948.

filed under project no. , Div. of Photogrammetry

28. DELINEATION:

Nine-lens photographs 15899 to 15901 inclusive 15919, 15920; 15965 to 15967 inclusive and 15992 were used in establishing detail points.

Photographs 15919, 15920 and 15966 were used for delineation.

The scale of the photographs was fair. They were clear enough for the areas encompassed.

Field inspection was adequate for ^{the} delineation of the manuscript.

29. SUPPLEMENTAL DATA:

None used.

30. AND 31. MEAN HIGH-WATER, LOW-WATER AND SHOAL LINES:

These were delineated according to field inspector's notes and photo interpretation of the compiler.

32. DETAILS OFFSHORE FROM THE HIGH WATER LINE:

There are no offshore details that need investigation by the hydrographic party.

33. WHARVES AND SHORELINE STRUCTURES:

There are none within the limits of this quadrangle.

34. LANDMARKS AND AIDS TO NAVIGATION:

No landmarks were recovered or recommended for charting by the field party. Aids to navigation are reported on form number 567.

35. HYDROGRAPHIC CONTROL:

No hydrographic control required. Five (5) recoverable topographic stations were established which may be used by the hydrographic party.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

None exist within the limits of this quadrangle.

37. GEOGRAPHIC NAMES: 814✓

The names on the geographic name sheet furnished by the Washington Office have been applied to the map manuscript.

38. BOUNDARIES:

Boundary lines have been shown on the map manuscript as indicated on the boundary maps submitted by A.J. Wraight.

This quadrangle falls within ~~SW~~ Pamlico and Currituck counties. It is noted that the Field Inspection Report states that this quadrangle falls in Pamlico County which is in error.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

A comparison was made with planimetric maps numbers 5563 and 5564 dated April 1935. They are in good agreement except for a few minor discrepancies. See the Review Report.

45. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Nautical Chart 1231 bearing a print date of October 5, 1946. The two are in good agreement. Note that Swan Island is now connected with the mainland by a narrow neck of land.

Respectfully submitted,

Richard A. Reece

Richard A. Reece,
Photo. Aid

Approved and Forwarded:

Ross A. Gilmore

Ross A. Gilmore, 11/17/48
Chief of Party.

FIELD EDIT REPORT
Quadrangle T-8724
35° 00.0' / 76° 30.0' / 7.5'
Ph-5 (45)
Harry F. Garber, Chief of Party

The field edit of this quadrangle was accomplished during the period from May 11 to May 22, 1950 by Mr. Cecil A. Navin, Topographic Engineer. All work was performed in accordance with Field Edit Instructions, dated August 1945; Supplement I, dated February 1946; and Topographic Manual--Part II, dated June 1949.

51. METHODS

2 words All features were checked by visual inspection ^{and} ~~augmented~~ by hand level elevations. ~~and~~ Corrections ^{were} made on either the field edit sheet or the field photographs. Any corrections made on the photographs have been labeled on the field edit sheet.

A legend, describing the colored inks used, is shown on both the field edit sheet and the photographs.

The field edit information is shown on one (1) field edit sheet; one (1) discrepancy sheet; one (1) geographic names sheet; and one (1) nine-lens photograph (1:20,000 scale) number 15957.

52. ADEQUACY OF COMPILATION

The compilation appears very satisfactory.

53. MAP ACCURACY

The map accuracy appears very good. No acute horizontal displacement was found during the inspection; however, a few contours adjacent to marsh indentations were corrected to conform to the inshore marsh limits.

No vertical accuracy test was required.

54. RECOMMENDATIONS

No comment.

55. EXAMINATION OF THE PROOF COPY

The field edit sheet was examined by Mr. Lloyd Lupton, Whartonsville, N. C. who could recommend no further changes.

Three corrections and ^{two} ~~one~~ additions to the geographic names sheet ~~were made according to~~ local usage, verified by numerous interviews, prompted the corrections.

Changes and additions were resolved by the Geographic Names Section. See Form M 234 with this report.

56. REFERENCE TO ITEM 6, FIELD INSPECTION REPORT

All true swamp has been identified on the field edit sheet. In general, all terrain lying between the 2 and 4 foot contour, is flooded after heavy rains but drains off, and with the exception of bottom lands, is dry the greater part of the year.

Submitted,
22 May 1950

Cecil A. Navin
Cecil A. Navin
Topograph Engineer

Approved:

Harry F. Garber
Harry F. Garber
Chief of Party
Vsr

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TO BE CHARTED

TO BE DELETED

STRIKE OUT ONE

NON-FLOATING AIDS OR LANDMARKS FOR CHARTS

Morehead City, N.C.

15 July 1948

I recommend that the following objects which have ~~(harvested)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

Richard G. Pease,

The positions given have been checked after listing by

Richard A. Reece

Tampa Photogrammetric Office

Tampa Photogrammetric Office

Wiley J. Pipe

Wiley J. Pipe

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

GEOGRAPHIC NAMES

Survey No. T-8724

BROAD CREEK 7 $\frac{1}{2}$ ' quad., N.C.

1	Name on Survey	A	B	C	D	E	F	G	H	K	
	<u>North Carolina</u>									USGB	1
	<u>Carteret County</u> ✓			<u>Merrimon Township</u> ✓							2
	<u>Pamlico County</u> ✓✓			<u>Township 2</u> ✓							3
	<u>Pamlico Sound</u> ✓✓									USGB	4
	<u>Neuse River</u> ✓✓									"	5
											6
	<u>Turnagain Bay</u> ✓✓										7
	<u>Turnagain Bay Spit</u> ✓✓										8
											9
	<u>Gum Thicket Shoal</u> ✓✓										10
	<u>Gum Thicket Creek</u> ✓✓										11
	<u>Gum Thicket</u> ✓✓			(area)							12
	<u>Broad Creek</u> ✓✓										13
	<u>Cedar Point</u> ✓✓										14
	<u>Cedar Creek</u> ✓✓										15
	<u>Tonney Hill Point</u> ✓✓										16
	<u>Mill Creek</u> ✓✓										17
	<u>Parris Creek</u> ✓✓										18
	<u>Skate Point</u> ✓✓										19
	<u>Tar Creek</u> ✓✓										20
	<u>Pasture Creek</u> ✓✓										21
	<u>Grace Point</u> ✓✓										22
	<u>Burton Creek</u> ✓✓									(Decis. B.G.N.)	23
	<u>Pittman Creek</u> ✓✓										24
	<u>Dowdy Point</u> ✓✓										25
	<u>Green Creek</u> ✓✓										26
	<u>Piney Point Creek</u> ✓✓										27

GEOGRAPHIC NAMES

Survey No. T-8724

GEOGRAPHIC NAMES																					
Survey No. T-8724																					
2 Name on Survey		A		B		C		D		E		F		G		H		K			
Piney Point ✓ ✓																				1	
Swan Island ✓ ✓																				2	
Wading Creek ✓ ✓																				3	
Spring Creek ✓																				4	
Florence Elm. School ✓																				5	
Zion Hill Church ✓																				6	
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Review Report T-8724
Topographic Map
23 August 1950

62. Comparison with Registered Topographic Surveys:

1073	1:20,000	1868
1074	1:20,000	1868
1094	1:20,000	1869
3822	1:20,000	1922
3823	1:20,000	1922
5563	1:10,000	1934
5564	1:10,000	1934
6404b	1:10,000	1935 (planetable graphic control)

The photo compilation of T-5563 shows a trail across the marsh and several abandoned tramways in the woods north of Swan Creek, and additional trails and a woods road (rd.7) at the head of Green Creek, and at Pitman Creek. They are not visible on the photographs.

T-5564 has numerous field ditches shown which are incidental to cultivation in the low areas peculiar to this locality. The complete network is not shown on T-8724, but the ditches that appear to be of a reasonable permanent nature have been indicated.

The above listed surveys are superseded by T-8724 for nautical charting purposes.

63. Comparison with Maps of Other Agencies: None

64. Comparison with Contemporary Hydrographic Surveys: None

65. Comparison with Nautical Charts:

1231	1:80,000	50 2/20
1233	1:80,000	50 7/17

No change pertinent to nautical charts has been made during review. (See item 45).

66. Adequacy of Results and Future Surveys.- No horizontal or vertical accuracy tests were made for this survey.

This survey fulfills the project instructions and Bureau Policy and complies with the National Standards of Accuracy.

It unqualifiedly supersedes all other surveys except for the features mentioned in 62 above and should be used for subsequent nautical chart compilation.

Reviewed by:

Roscoe J. French
Roscoe J. French

Approved by:

S. V. Kippin 2/19/52
Chief, Review Section
Division of Photogrammetry

H. B. Munster
Chief, Nautical Chart Branch
Division of Charts GFD

O. S. Reading
Chief, Division of Photogrammetry
MSJ

Carl O. Heston
Chief, Div. Coastal Surveys
CH

NAUTICAL CHARTS BRANCH

SURVEY NO. T-8724

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.