

8738

SE & SW

Diag Cht. No. 1234-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey **TOPOGRAPHIC & SHORELINE**
CORE CREEK QUADRANGLE

Field No. **PH-5(45)** Office No. **T-8738**

LOCALITY

State **NORTH CAROLINA**

General locality **BEAUFORT**

Locality **NEWPORT RIVER**

1947-49

G.E. Morris, Jr. CHIEF OF PARTY

R. J. Sipe, Chief of Field Party

R. A. Gilmore, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE **July 9, 1951**

B-1870-1 (1)

8738

DATA RECORD

T- 8738

Quadrangle (II):

Core Creek

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

Field Office: New Bern, N.C.

Chief of Party: Riley J. Sipe

Compilation Office: Tampa, Fla.

Chief of Party: Ross A. Gilmore

Instructions dated (II III): Undated

Supplement #1, 11 Dec 1946

Copy filed in Descriptive
Report No. T- (VI)Division of Photogr. files
Review Section

Completed survey received in office:

9-30-48

Reported to Nautical Chart Section: 10-10-48

Reviewed: 3-1-50

Applied to chart No.

Date:

Redrafting Completed:

Registered: 6/25/51

Published:

Compilation Scale: 1: 20,000

Published Scale: 1: 24,000

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): MSL

Reference Station (III): ADAM, 1931

Lat.: $34^{\circ} 49' 40.168$ (1237.8m) Long.: $76^{\circ} 41' 27.372$ (695.6m) Adjusted
~~Unadjusted~~

State Plane Coordinates (VI):

NORTH CAROLINA

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>
16240	4-11-46	10:38	1:20,000	±0.2
16241	4-11-46	10:39	"	±0.2
16017	4-5-46	16:07	"	-0.3
16018	4-5-46	16:09	"	-0.3

Tide from (III): Beaufort, N.C.
Reference Station Hampton Roads, Va.
Mean Range: 2.5 Ft. Spring Range: 3.0 Ft.

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

Field Inspection by: J.S. Howell, M.A. Stewart, M.F. Kirk, date: Jan.-Feb. 1947
E.L. Williams, and B. Garfinkel. Sept.-Oct. 1947

Field Edit by: *Elgan T. Jenkins* date: *April 1949*

Date of Mean High-Water Line Location (III): See Shoreline Survey. (attached)
Descriptive Report.
28 Jan. - 23 Feb. 1947

Projection and Grids ruled by (III) H.R. (Wash. Office) date: 18 Nov. 1947

" " " checked by: T.L.J. (Wash. Office) date: 18 Nov. 1947

Control plotted by: R. Dossett date: 2 March '47

Control checked by: I.I. Saperstein date: 2 March '47

Radial Plot by: E.C. Andrews date: 8 April '47

Detailed by: Enola N. Cross date: 20 May to 20 Aug. '48

Reviewed in compilation office by: W.H. Shearouse date: Sept. 1948

Elevations on ^{Map Manuscript} ~~Field Book Sheet~~ checked by: W.H. Shearouse date: Sept. 1948

STATISTICS (III)

Land Area (Sq. Statute Miles): 54

Shoreline (More than 200 meters to opposite shore): See Shoreline Survey
Descriptive Report

Shoreline (Less than 200 meters to opposite shore): 32

Number of Recoverable Topographic Stations established: 12 (8 from 1:10,000
shoreline)

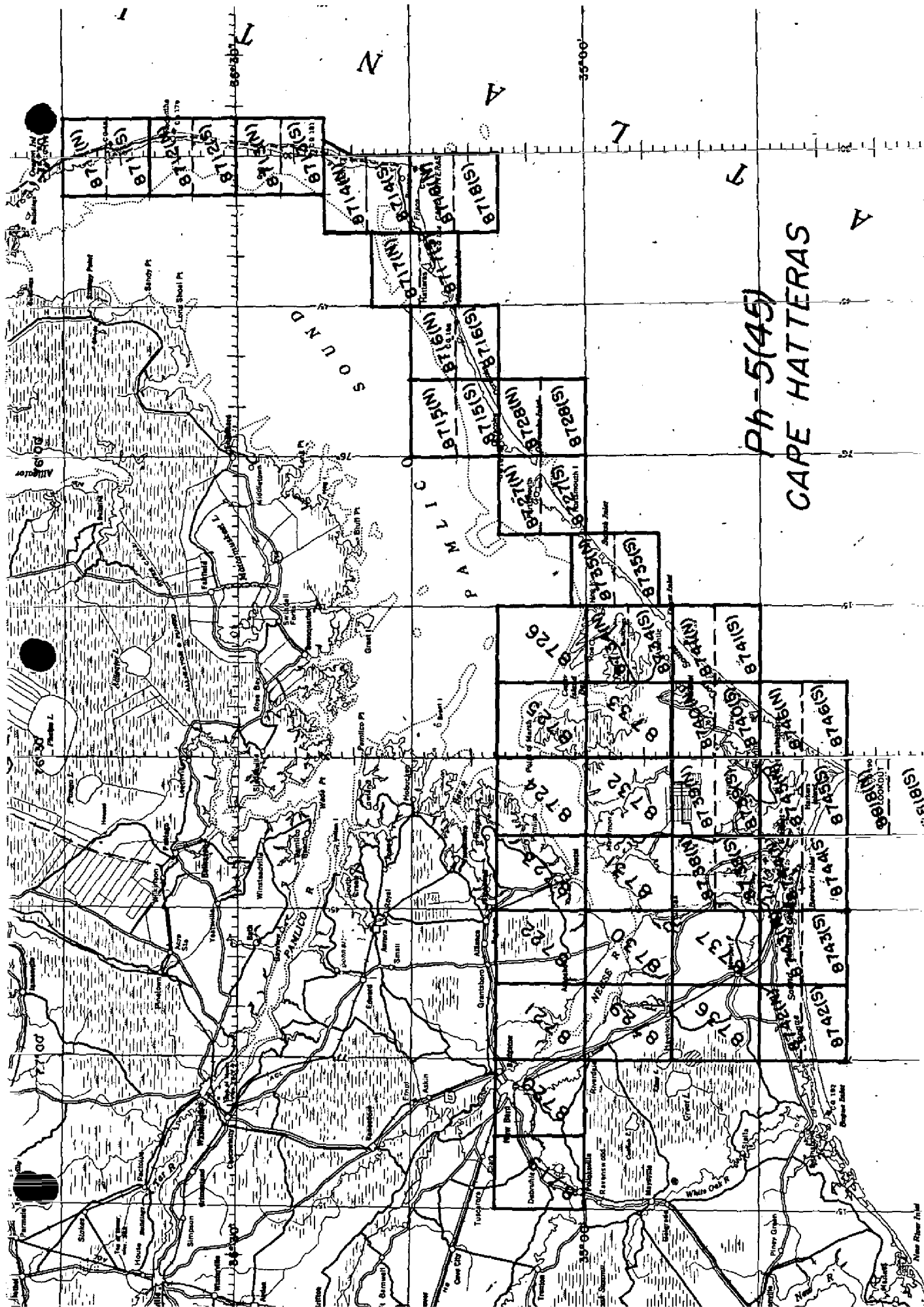
Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: 7.3

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:



Summary Report to Accompany T-8738
(Topographic and Shoreline)

T-8738 is one of a series of 37 $7\frac{1}{2}$ -minute quadrangles in project Ph-5(45) in North Carolina. It covers an area which includes a large part of Newport River, Harlowe Creek, Core Creek, the Adams Creek Canal part of the Intracoastal Waterway, and the eastern part of Croatan National Forest.

T-8738 is composed of two separate map manuscripts; i.e., one standard $7\frac{1}{2}$ -minute topographic quadrangle, 1:20,000 scale, and one shoreline (S/2) manuscript at 1:10,000 scale which is $3\frac{3}{4}$ minutes in latitude and $7\frac{1}{2}$ -minutes in longitude.

A reduction of the shoreline manuscript (S/2), which is limited to an alongshore zone approximately 200 meters wide, was traced directly on to the 1:20,000 scale manuscript.

All contours and interior details were compiled from the 1:20,000 photographs directly.

The Two Descriptive Reports, one for the topographic and one the shoreline map, are combined under one cover.

The several mapping operations were as follows:

- a) Nine-lens photography and laboratory processing, 1:20,000 scale and 1:10,000 scale.
- b) Field work included shoreline inspection (1:10,000), identification and establishment of horizontal and supplemental vertical control, planetable contouring (1:20,000), clarification of photographic detail, and graphic names investigation.
- c) Radial plot ~~and compilation by~~ graphic compilation.
- d) Preliminary office inspection of topographic manuscript.
- e) Field edit and completion
- f) Final review of the manuscripts to ensure completeness and conformance with specifications and project instructions, and to include additions and corrections from the field edit survey.
- g) Processing - A 1:20,000 scale glass plate negative of the topographic manuscript will be prepared for transmittal to the Geological Survey.

T-8738 will be published and distributed by the Geological Survey at a scale of 1:24,000 as a standard topographic quadrangle in accordance with an agreement dated March 25, 1947.

Data pertaining to this survey (T-8738) will be filed and may be obtained as follows:

- a) Filed in the Division of Photogrammetry

1. Two map manuscripts (originals) 1:20,000 scale (topo), and 1:10,000 scale (shoreline), field edit and final review corrections applied.
 2. Field edit sheet
 3. Form 524, topographic station descriptions (12)
- b) Filed in the Bureau Archives
1. Combined descriptive reports (topo and shoreline)
 2. A cloth-backed lithographic print of T-8738 at 1:20,000 scale, (topo).
 3. A cloth-backed lithographic print of T-8738 at 1:10,000 scale (Shoreline S/2).

The above prints are to be permanently registered under one number (T-8738), and when the topographic map is published, a cloth-backed copy of the printed map at 1:24,000 scale will be registered.

The shoreline map manuscript will not be published.

FIELD INSPECTION REPORT
T-8738 (34° 35' 76" 15")
Project Ph-5(45)
Sub-project B

Riley J. Sipe, Chief of Party

All phases of the field work were done in accordance with the Director's Instructions, Project Ph-5(45), Field, undated and supplement 1 to the above, dated 11 November 1946, except for deviations noted herein.

The field work in this quadrangle was performed by the following personnel on the dates indicated:

<u>NAME & TITLE</u>	<u>FIELD WORK</u>	<u>DATES</u>
M. A. Stewart Engr. Aid	Third Order Levels Vertical Control	12-11-46 1-7-47
J. S. Howell Topo. Engr.	Hor. Control Shoreline insp.	1-28-47 2-23-47
M. F. Kirk Topo. Engr.	Vertical Control Contours	7-22-47 9-8-47
B. Garfinkel Engr. Aid	Vertical Control Contours	8-16-47 9-30-47
E. L. Williams Engr. Aid	Contours Interior Inspection	9-1-47 10-15-47

1. Description of the Area

Morehead City and Beaufort, N. C. are about a mile south of and parallel to the southern boundary of the quadrangle. North River and its tributaries parallel the eastern boundary. Newport River and Core Creek which bisects the quadrangle in a N. S. direction, are part of the Intra-coastal Waterway. Along the banks of the Newport River are some fishing villages. The southern half of the quadrangle, particularly in the south east corner, is farmed intensively. The northern half is heavily wooded with large flat areas densely overgrown with brush and thorny growth. There are occasional deep pot holes left by sub surface fires. About a foot of water covers this portion during the wet season and it is dry for about 2 months during the summer. Lumbering, fishing, and farming are the chief occupations.

2. Completeness of Field Inspection

Field inspection is completely and adequately covered on the photographs.

3. Interpretation of the Photographs

No difficulty was encountered in the interpretation of the photographs. Woods which appear on the photograph as a light gray tone with a billowing

texture are usually in water; this indicates the ⁹/₁₀ ground is lower than the surrounding area. A large smoothly textured and shiny black toned area in the north east corner of the quadrangle is burnt ground which is very level.

4. Horizontal Control

Ten horizontal control stations were searched for and recovered, of these nine were identified on the photographs for control of the radial plot.

5. Vertical Control

Two third-order level lines were run in the quadrangle, and bench marks were established about every mile along each line. From bench marks of this line fly levels were run and spot elevations were established to be used in contouring. The maximum error of closure accepted was 1 foot.

6. Contours and Drainage

Contouring was done by planetable methods on 9 lens 1:20,000 scale photographs. Streams were easily identified on the photographs, in most cases, because the undergrowth grows very densely along the banks. Where this was not the case the position was plotted by planetable. Between Harlowe Creek Canal and Core Creek the general orientation of the drainage from the edges of the relatively high flat land is into the fore-mentioned creeks. These creeks are tidal. A similar condition exists from Core Creek east to the deep ditches along the Merrimon Road. These ditches drain into North River.

7. Mean High Water Line

The average tide range is approximately two feet. No record of the tide variation is available and as this water area is connected to the Neuse River by the Inland Waterway Canal the tide is extremely variable.

Much of the shoreline is apparent due to the weed growth in the soft mud deposited by the river and canals. Along the Inland Waterway Canal, due to the steep banks the water line and low water line are almost synonymous.

8. Low Water Line

Due to the extremely variable nature of the tide it was impossible to determine accurately the low water line; consequently, an approximate low water line was sketched in the area visited near the time of low water.

9. Wharves and Shoreline Structures

No substantial wharves or shore line structures exist within the limits of this quadrangle. Small boat houses, fish docks, and farm buildings dot the shore line and can be readily identified on the photographs.

10. Details Offshore from Mean High Water Line

Details noted off shore from mean high water line consisted of aids to navigation, sand and oyster shell bars, all of which were indicated for the information of the compiling office.

11. Landmarks and Aids to Navigation

No recommendations pertaining to landmarks are made.

Fixed Aids to navigation were located on the photographs and described on Forms 567 and 524.

12. Hydrographic Control *attached Div. of Photogrammetry General Files.*

Topographic stations were selected or set along the shoreline and spaced in relation to existing triangulation stations so that control now exists at about one mile intervals.

13. Landing Fields and Aeronautical Aids

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

14. Roads

The roads and trails were classified according to Photogrammetry Instructions #10 dated 14 April 1947. *Div. of Photogrammetry Office Files.*

15. Bridges

There is a discrepancy on each of the two bridges as listed in the bridge book and as measured by the field inspection party. The discrepancies have been reported as directed in the project instructions.

16. Buildings and Structures

All buildings and structures are adequately shown on the photographs.

17. Boundary Monuments and Lines

No boundary monuments exist in the quadrangle. A straight line extends from a monument in Quad T-8732 to a bridge in Quad T-8737 through this quadrangle. It is the Carteret-Craven County Line boundary and is not shown on the photographs of the quadrangle. *See Review Report 61.*

18. Geographic Names

Geographic Names were investigated in the field and will be the subject of a special report by Mr. A. J. Wraight, Topographic Engineer. *Filed in Geographic Names Section, Div. of Charts.*

Submitted:

Date: 10 November 1947

E. L. Williams per *[Signature]*
E. L. Williams
Engr. Aid

Approved:

Date: 10 November 1947

Riley J. Sipe
Riley J. Sipe
Chief of Party

MAP T. 8738

PROJECT NO. Ph-5(45)

SCALE OF MAP 1: 20,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y -COORDINATE LONGITUDE OR x -COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
5 RUSSELLS CREEK BN #11, 1933	G.P.s. P.475	N.A. 1927	34° 45' 28.187"					868.6 (980.3)			
	"	"	76 40 22.608					575.0 (951.0)			
RUSSELL, 1933	"	"	34 45 23.200					714.9 (1134.0)			
	602		76 39 46.788					1190.0 (336.0)			
slough LOG SHED BN, 1933	P.475	"	34 45 19.752					608.7 (1240.2)			
		"	76 41 22.048					560.7 (965.3)			
CORE CREEK REAR RANGE BN, 1933	"	"	34 46 01.886					58.1 (1790.8)			
		"	76 41 08.780					223.3 (1302.5)			
CORE, 1933	P.455	"	34 46 30.920					952.8 (896.1)			
		"	76 41 52.532					1335.7 (190.0)			
WHITE, 1933	P.602	"	34 46 37.103					1143.3 (705.6)			
		"	76 43 36.275					922.4 (603.2)			
CORE CREEK FRONT RANGE NO. 8 BEACON, 1933	P.475	"	34 46 20.752					639.5 (1209.4)			
		"	76 41 09.607					244.3 (1281.4)			
ADAM 1931	G.P.s. P.601	"	34 49 40.168					1237.8 (611.1)			
		"	76 41 27.372					695.6 (829.1)			
C of E MON #24, (P.P.#3) 1943	C of E 482	"	34 49 16.428					506.2 (1342.7)			
		"	76 44 20.929					531.9 (992.9)			
C of E. MON #25, 1943	C of E 486	"	34 49 19.075					587.8 (1261.1)			
		"	76 44 29.936					760.8 (764.0)			

1 FT. = 3048008 METER

COMPUTED BY: W.H. Shearouse

DATE 3 April 1947

CHECKED BY: M.M. Slavney

DATE 10 July 1947

M-2388-12

COMPILATION REPORT
TO ACCOMPANY
QUADRANGLE T-8738

26 AND 27. CONTROL AND RADIAL PLOT:

A special report prepared by E.C. Andrews and R.J. Pate, Photogrammetric Aids, was submitted to the Washington Office on 20 May 1948. *Filed in Div. Photogrammetry General Files.*

28. DELINEATION:

This map manuscript was delineated in accordance with the latest instructions for Project Ph-5(45)B.

A part of this map manuscript was traced directly from a 1:20,000 reduction of shoreline manuscript T-8738 with a few minor changes. Detail points were scattered throughout this shoreline area to check the 1:20,000 plot. These points held very well or were well within the limits of accuracy. The remainder of the detail not shown on the shoreline manuscript was delineated from 1:20,000-scale photographs. As much detail as possible was delineated from photographs Nos. 16239, 16240, and 16241 which were of excellent scale. Photographs Nos. 16017 and 16018 were hazy and of very poor scale which necessitated the use of the projector—particularly in woodland areas where there was lack of identifiable detail.

TRIANGULATION STATION U.S.E. (approximate Lat. $34^{\circ} 46' 50''$ and Long. $76^{\circ} 37' 30''$) is only shown as a bench mark on this map manuscript, as its position could not be determined because no name was submitted for it by the field inspector. *Shown as BM.*

The azimuth of the range of the Core Creek Front and Rear Range Lights 24 (see Shoreline Survey Compilation Report, item 28) was established from an inverse position computation. This computation was necessary as the "points on range" determined by sextant fixes taken by the field party did not plot on the range of the lights.

The field inspection was adequate with the exception of road classification and vegetation classification in the north part of this manuscript. Discrepancies have been noted on the overlay for the field editor.

30. MEAN HIGH-WATER LINE:

See 1: 10,000 Shoreline Survey Compilation Report.

31. LOW-WATER AND SHOAL LINES:

See 1: 10,000 Shoreline Survey Compilation Report.

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

See 1: 10,000 Shoreline Survey Compilation Report.

33. WHARVES AND SHORELINE STRUCTURES:

See 1: 10,000 Shoreline Survey Compilation Report.

34. LANDMARKS AND AIDS TO NAVIGATION:

See 1: 10,000 Shoreline Survey Compilation Report.

35. HYDROGRAPHIC CONTROL:

See 1: 10,000 Shoreline Survey Compilation Report.

37. BRIDGES:

Two bridges over Harlowe Canal and one over the Intra-Coastal Waterway are shown with their horizontal and vertical clearances as furnished by the field inspector. (See Field Inspection Report, item 15.)

38. BOUNDARY MONUMENTS AND LINES:

The Carteret-Craven County Line boundary is shown in the north-west part of this quadrangle. (See Field Inspection Report, item, 17.)

Part of the east boundary of Croatan National Forest falls in this quadrangle.

39. GEOGRAPHIC NAMES:

All geographic names submitted have been applied to the map manuscript. *List of approved names attached.*

attached

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

None available for comparison.

45. COMPARISON WITH NAUTICAL CHARTS:

See 1: 10,000 Shoreline Survey Compilation Report.

In comparison with U.S. Coast and Geodetic Survey nautical chart No. 420, scale 1: 40,000, bearing the print date of 13 January 1947, a few features have been added:

(1) The addition of several piers and fences along the Newport River shore in the southwest part of the map manuscript.

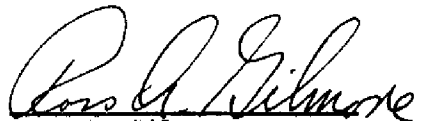
(2) In the Newport River the addition of two small islands south of the mouth of Little Creek and one island north of CORE CREEK LIGHT 29.

Respectfully submitted,

Enola N. Cross

Enola N. Cross,
Engr. Draftsman

Approved and Forwarded:


Ross A. Gilmore,
Chief of Party.

NOTES TO FIELD EDITOR
BOUNDARY LINES
PROJECT PH-5(45)

The township map of Carteret County, scale 1:80,000 is very inaccurate. When enlarged to the scale of the map manuscript, the various township lines involved do not plot in positions that appear to be correct, as it is believed that most township lines follow natural boundaries where possible. Since no legal descriptions were submitted for these boundary lines, this office has taken the responsibility of correcting the township lines to follow natural boundaries wherever possible. For example; the boundary line between BEAUFORT and STRAIGHTS TOWNSHIPS in NORTH RIVER has been constructed to follow the center of the river until it reaches TURNPIKE ROAD in Quadrangle T-8738. Actually the line (if plotted as shown on the county map) would leave the river approximately 40 millimeters north of Crabbing Creek and continue in a straight line across the marsh to TURNPIKE ROAD. Also the township line between SMYRNA and HUNTING QUARTERS TOWNSHIPS has been changed accordingly. This line has been shown as a straight line from the upper reaches of the EAST FORK of SOUTH RIVER in Quadrangle T-8732 to the upper reaches of HOWLAND CREEK in Quadrangle T-8740. If the line were shown as plotted from the County map, it would leave the EAST FORK of SOUTH RIVER in Quadrangle T-8732 approximately 49 millimeters down stream from its upper reaches.

It is suggested that the field editor discuss these discrepancies with the Board of County Commissioners and advise this office regarding same. It seems feasible that the Board, upon being thoroughly acquainted with the accuracy and completeness of our published quadrangles would adopt them as their official maps for political boundaries.

*See # 61, Review Report in reference to
source material on township lines.*

William A. Rasure

William A. Rasure
Photogrammetric Engr.

Approved and Forwarded:

Ross A. Gilmore

Ross A. Gilmore
Lieut. Comdr. USCGS
Chief of Party.

See review report. 61.

FIELD EDIT REPORT
Quadrangle T-8738
34-45.0'/76-37.5'/7.5'
Project Ph-5(45)

E. R. McCarthy, Chief of Party

The field edit of this quadrangle was accomplished during the month of April, 1949, by Elgan T. Jenkins, Cartographer. All work was performed in accordance with Field Edit Instructions, dated 24 August, 1945, and Supplement 1, dated 4 February, 1946.

46. METHODS

Features such as roads, structures, drainage, and contours were checked by visual observation supplemented as necessary by planetable methods.

Changes, except as otherwise noted, were made directly on the field edit sheet by planetable methods or by measurements from topographic features.

Discrepancies, not answered directly on the discrepancy print, or otherwise noted, are discussed in the body of this report.

47. ADEQUACY OF THE COMPILATION

The compilation was adequate considering the extent of the field inspection. Part of the corrections shown on the field edit sheet were the results of natural and artificial changes which occurred subsequent to the date of the field inspection.

48. ACCURACY TESTS

No accuracy tests were specified for this quadrangle. It is believed to comply with the horizontal and vertical accuracy specifications. Numerous distributed visual observations indicate that the contour expression is satisfactory, with the exception of four small areas. See item 6 of this report.

4. HORIZONTAL CONTROL

No definite information could be obtained about the U S E station in 34-46.8/76-37.5. *Shown as BM.*

RJF

5. VERTICAL CONTROL

One bench mark was found destroyed. Form 685-A is submitted.

6. CONTOURS AND DRAINAGE

The contours were corrected to better express the relief in four areas. Most of these changes are proven by elevations. See Photo 16017.

At 34-51.0'/76-41.4', the Field Inspector noted on the photographs that there were no 20 foot contours shown. This area was examined and the 20 foot contours are shown very nearly correct by the Field Inspector. The depression, between the dikes in this area, could carry a 10 and 15 foot contour only if exaggerated. All other details were found to be delineated correctly.

7. MEAN HIGH WATER LINE

In 34-46.6'/76-43.7', the shore line was changed slightly by the Field Editor. The MHWL as of the date of field edit, is shown on the photographs.

In the nearby areas of 34-46'/76-41', the Compiler delineated the MHWL, with as much accuracy as is possible. The flat foreshore, composition of the land, and the complexity of the shore outline combine to make it impractical to delineate it with any high degree of accuracy. (See Field Inspection Report, Item 7).

14. ROAD CLASSIFICATION

The Turnpike Road, in the eastern limit of this quadrangle is under construction. Reliable information asserts this road will be paved in the summer of 1949, from U. S. 70 to Merrimon, N. C.

17. BOUNDARY LINES

Notes to the Field Editor, concerning the "Township Lines" of Carteret County, were discussed in the Field Edit Report of quadrangle T-8732.

See review 61.

18. GEOGRAPHIC NAMES

It is recommended that the name SANDERS MILL be deleted and
No. — WIRE GRASS be accepted. Although SANDERS MILL was recommended as an undisputed new name in the Geographic Name Report, WIRE GRASS is in current local use. See field edit sheet.

It is recommended that the name FOREMAN CORNER be deleted and
Yes — CORE CREEK be accepted. The name FOREMAN CORNER was listed as a disputed name in the Geographic Name Report. However, CORE CREEK is in current local use. See field edit sheet.

49. LINES ACROSS NAVIGABLE WATERWAYS

Attention is called to a new cable crossing in 34-49.6'/76-41.5'. This cable crossing is in addition to the one shown nearby. The detail ^{is} shown on the field edit sheet.

50. SWAMP LIMITS

At 34-49.0'/76-44.6', the swamp limit was delineated to some extent by the Field Editor. With this as a guide and with reference to item 3 of the Field Inspection Report, the compiler will probably be able to delineate other limits adequately.

MISCELLANEOUS

The copy of the map compilation was examined for errors by Mr. W. J. Hardesty, R.F.D. #2, Newport, N. C. Mr. Hardesty is a life long resident of this area and has been a surveyor for the past 32 years. He could find no errors in the corrected copy.

Submitted:
20 June 1949

E. T. Jenkins
Elgan T. Jenkins by Joseph K. Wilson
Cartographer

Approved:
26 July 1949

E. R. McCarthy
E. R. McCarthy
Chief of Party

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. T-8738(2) ^S Office No. _____

LOCALITY

State North Carolina

General locality Beaufort

Locality Newport River

1947

CHIEF OF PARTY

Lieut. Comdr. Riley J. Sipe

Lieut. Comdr. George E. Morris, Jr.

LIBRARY & ARCHIVES

DATE _____

DATA RECORD

T-8738 ^S(2)

Quadrangle (II): Shoreline Manuscript

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

Field Office: New Bern, N.C.

Chief of Party: Riley J. Sipe,
Lieut. Comdr.

Compilation Office: Tampa, Fla.

Chief of Party: George E. Morris, Jr.
Lieut. Comdr.

Instructions dated (II III): Undated

Copy filed in ~~Descriptive~~
~~Report No. T~~ (VI)*Division of Hydrographic
Review Section*

Completed survey received in office:

9-30-48

Reported to Nautical Chart Section:

10-10-48

Reviewed:

3-1-50

Applied to chart No.

833
(partially)

Date:

4-9-48

Redrafting Completed:

Registered: 6-18-51

Published:

Compilation Scale: 1:10,000

Published Scale: —

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): Mean High-Water

Reference Station (III): White, 1933

Lat.: 34° 46' 37.103" (1143.3m)

Long.: 76° 43' 36.275" (922.4m)

Adjusted

~~Unadjusted~~

State Plane Coordinates (VI):

NORTH CAROLINA

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>
16178	Apr. 7, 1946	1115	1:10,000	2.0 feet
16179	" 7, 1946	1116	1:10,000	2.0 feet
16180	" 7, 1946	1117	1:10,000	2.0 feet
16181	" 7, 1946	1117	1:10,000	2.0 feet

Tide from (III): Beaufort, N.C.

Reference Station Hampton Roads

Mean Range: 2.5 feet

Spring Range: 3.0 feet

Camera: (Kind or source) U.S. C. & G. Survey 9-lens, 8.24" focal length

Field Inspection by: J.S. Howell
M.F. Kirk
E.L. Williams

23 Feb. 1947 to
date: 15 Oct. 1947

Field Edit by: *See topo T-8738.*

date: _____

Date of Mean High-Water Line Location (III): 28 Jan - 23 Feb. 1947

Projection and Grids ruled by (III) T.L.J.(W.O.)

date: 25 Sept. 1947

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

date: 25 Sept. 1947

Control plotted by: R.R. Wagner

date: 6 Oct. 1947

Control checked by: I.I. Saperstein

date: 6 Oct. 1947

Radial Plot by: M.M. Slavney

date: 20 Oct. 1947

Detailed by: W.H. Shearouse

date: Nov.-Dec. 1947

Reviewed in compilation office by: J.A. Giles

date: Jan- 1948

Map Manuscript
Elevations on ~~Sheet~~ ~~Sheet~~
~~checked by~~ None

date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 3.4

Shoreline (More than 200 meters to opposite shore): 18.5 Statute miles

Shoreline (Less than 200 meters to opposite shore): 7.4 Statute miles

Number of Recoverable Topographic Stations established: 78

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: None (shoreline manuscript)

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:

COMPILATION REPORT
TO ACCOMPANY
QUADRANGLE T-8738
SHORELINE SURVEY

26 AND 27. CONTROL AND RADIAL PLOT:

This the subject of a special report submitted to the Washington Office 17 November, 1947 by Milton M. Slavney, Photogrammetric Engineer.

28. DELINEATION:

This map manuscript covers shoreline (2)^S of quadrangle T-8738. The (N) is not to be delineated as a shoreline survey.

Photographs 16178, 16179, 16180 and 16181 were used for delineation. They were of fairly good scale and provided adequate coverage of the area. Clouds covered an area near the center of photograph 16179 at approximate Latitude $34^{\circ} 46'$, Longitude $76^{\circ} 41'$ and handicapped the compiler to some extent. In this general area some of the detail had to be delineated by using 2-cut detail points. Since the pass points from the radial plot appear "strong" it is believed the area is well controlled and accurately delineated.

Field inspection of the shoreline and adjacent inland area was adequate.

Delineation of shoreline features is complete. However, the azimuth of the range of the Core Creek Front and Rear Range Lights 24 could not be established since Beacon 21, Light 20 and Light 19 - on which the establishment of the azimuth is based - were identified by the field inspector on the 1:20,000 scale photographs. An attempt was made to establish this range azimuth but the effort was inconclusive due to Light 19 falling outside the limits of the 1:10,000 scale photographs and the uncertainty of the identification of the other points. This work will be executed when the 1:50,000 scale topographic manuscript is compiled, and it is recommended that it be transferred to the shoreline manuscript in the Washington Office.

OK

29. SUPPLEMENTAL DATA:

None used.

30. MEAN HIGH WATER-LINE:

Mean high-water line was adequately noted by the field inspector and delineated accordingly.

Reference is hereby made to Item 7 of the Field Inspection report.

31. LOW-WATER AND SHOAL LINES:

The low-water line, where shown, is approximate, as stated in the Field Inspection report.

No attempt was made to delimit shoal areas as the photographs do not reflect their existence with enough clarity to warrant it.

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

Several oyster bars appear offshore. They uncover at low-water and have been delineated with the low-water symbol.

33. WHARVES AND SHORELINE STRUCTURES:

These were indicated by the field inspector or were obvious on the photographs and have been delineated and labelled accordingly. They consist of small docks and fowl fences.

34. LANDMARKS AND AIDS TO NAVIGATION:

No landmarks were recovered to be charted.

Form 567 covering all non-floating aids will be submitted with the 1:20,000 scale topographic manuscript.

35. HYDROGRAPHIC CONTROL:

No hydrographic signal sites were established.

Five topographic stations appear along the shoreline of this manuscript and were established for the future use of the hydrographer. Others will be established on the 1:20,000 scale topographic manuscript. *5 + Two Az. Mk's. and one fixed aid make total of 8 topo. stations on the shoreline ms. R.J.F.*

36. LANDING FIELDS AND AERONAUTICAL AIDS:

None.

37. BOUNDARY MONUMENTS AND LINES:

None

38. GEOGRAPHIC NAMES:

Geographic names have been applied to the map manuscript.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

None available for comparison.

45. COMPARISON WITH NAUTICAL CHART:

Comparison was made with nautical chart No. 420, scale 1:40,000, dated 20 July, 1946. The shoreline on the manuscript appears to be in excellent agreement with that on the nautical chart. Turtle Rock, at approximate Latitude $34^{\circ} 46.15'$, Longitude $76^{\circ} 44.2'$ was not identified by the field inspector nor could it be seen on the photographs by the compiler. The name has been shown on the map manuscript and it is recommended that the hydrographer investigate to determine if the rock still exists. *Turtle Rock appears as a bar on photo 16180 and has a notation in pencil only. RJF.*

More extensive detail is shown on the map manuscript and it should supersede the charted information.

Respectfully submitted,

William H. Shearouse

William H. Shearouse,
Cartographer

Approved and forwarded:

George E. Morris, Jr.
George E. Morris, Jr.
Chief of Party.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR MARKERS FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

Morehead City, N.C. 1947

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

The positions given have been checked after listing by

Enola N. Cross

Enola N. Cross, Tampa Photogrammetric Office
Riley J. Slupe, Chief of Party

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION			METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE	LONGITUDE	DATUM						
LOG SLOUGH LIGHT	North Carolina			34 45	608.7 76 41	560.7	N.A.	1927				420 1233
CORE CREEK LIGHT 29				34 45	868.6 76 40	575.0	"	"				833 1231
CORE CREEK RANGE REAR LIGHT 24				34 46	58.1 76 41	223.3	"	"				420 1233
CORE CREEK RANGE FRONT LIGHT 24				34 46	639.5 76 41	244.3	"	"				833 1231
CORE CREEK DAY BEACON 21				34 47	129 76 41	268	"	"				420 1233
CORE CREEK LIGHT 20				34 47	1835 76 41	388	"	"				833 1231
CORE CREEK LIGHT 19				34 48	853 76 41	242	"	"				420 1233

Note: Listed below are the original triangulation names of the lights compared with their present names.

"BEACON LOG SLOUGH, 1933" known now as "LOG SLOUGH LIGHT"

"RUSSELLS CREEK BEACON 11, 1933", known now as "CORE CREEK LIGHT #29"

"BEACON CORE CREEK REAR, 1933", known now as "CORE CREEK RANGE REAR LIGHT #24"

"CORE CREEK FRONT RANGE #8 BEACON, 1933" known now as "CORE CREEK RANGE FRONT LIGHT #24"

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating

GEOGRAPHIC NAMES

Survey No.

GEOGRAPHIC NAMES										
Survey No.										
Name on Survey	<div>On Chart No. On previous survey No. On U. S. quadrangle Maps From local information On local Maps P. O. Guide or Map Rand McNally Atlas U. S. Light List</div>									
	A	B	C	D	E	F	G	H	K	
Foreman Corner <u>Core Creek</u>										1
<u>N.C. State Highway #101 (New Bern Road)</u>										2
<u>Core Creek Swing Bridge</u>										3
<u>Sanders Mill</u> <i>stat 10 r deleted entire 2A</i>										4
<u>Craven County</u>										5
<u>Carteret County</u>										6
<u>Merrimon Township</u>										7
Harlowe Township										8
<u>Beaufort Township</u>										9
<u>Straits Township</u>										10
<u>Morehead Township</u>										11
<u>Newport Township</u>										12
<u>Intracoastal Waterway (Adams Creek Canal)</u>										13
<u>North River (village)</u>										14
<u>North River Corner</u>										15
<u>U.S. Highway #70</u>										16
<u>Feltons Creek</u>										17
<u>North River</u>										18
<u>Turnpike Road</u>										19
<u>Township 5</u> (in Craven County)										20
<u>Croatan National Forest</u>										21
<u>Harlowe Canal</u>										22
<u>Harlowe Canal Bridge</u>										23
<u>Harlowe Creek</u>										24
<u>Alligator Creek</u>										25
<u>Little Creek</u>										26
<u>Big Creek</u>										27
Currie <u>Mill Creek</u>										28

M 234

GEOGRAPHIC NAMES

Survey No.

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
<u>White Rock</u>										1
<u>Turtle Rock</u>										2
<u>Oyster Creek</u>										3
<u>Core Creek</u>										4
<u>Eastman Creek</u>										5
<u>Bell Creek</u>										6
<u>Ware Creek</u>										7
<u>Russell Creek</u>										8
<u>Crab Point Road</u>										9
<u>Mansfield Road</u>										10
<u>Crab Point Village</u>										11
<u>Lawton Point</u>										12
<u>Penn Point</u>										13
<u>North Carolina*</u>	(for title)									14
<u>Gross Rock</u>										15
	* - Decis. of BGN									16
										17
	Underlined names approved. 10-7-48.									18
	a.g.w.									19
										20
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										25
										26
										27

Review Report T-8738
(Topographic and Shoreline)
1 March 1950

61. General Statement.-Shoreline detail is limited to the S/2 of T-8738 and was compiled at 1:10,000 scale. The compilation of these two manuscripts is the product of combined operations; the tidewater areas being compiled from the 1:10,000 scale photographs, and then transferred after photographic reduction to the 1:20,000 scale topographic manuscript. The balance of interior detail and contours came directly from the 1:20,000 scale photographs. Two separate and distinct radial line plots were laid down to control each of the manuscripts.

Township lines were added from a map submitted and notarized by Carteret Co. authorities dated February 7, 1949 which supersedes previous data on these boundary lines.

62. Comparison with Registered Topographic Surveys.-

1328	1:20,000	1873	
3395	1:10,000	1913	Location of aids.
5047	1:20,000	1933	Air photo compilation
5574	1:20,000	1933	Air photo compilation

This survey (T-8738) unqualifiedly supersedes common areas of the above listed surveys in all respects.

63. Comparison with Maps of other agencies.- None

64. Comparison with Contemporary Hydrographic Surveys.- None

65. Comparison with Nautical Charts.-

420	1:40,000	8-8-49
1233	1:80,000	9-1-47
1234	1:80,000	10-3-49

The rock awash symbols used for the features Cross Rock, Turtle Rock and White Rock on the nautical charts were not confirmed as rocks by field inspection. The photographs carry the notation "awash at MLW". These features appear to be sand or *shell* bars and are shown on the manuscript with the low water symbol only.

The exact channel limits of the Intracoastal Waterway where it courses through the mouth of Core Creek and Newport River are not discernible on these photographs.

The name Brickyard Creek is obsolete; Big Creek and Little Creek have been assigned in that area.

New bridge clearances have been assigned for the Harlowe Canal Bridge and the Core Creek Swing Bridge.

66. Adequacy of Results and Future Surveys.-

No horizontal or vertical accuracy tests were made on this survey.

This map complies with the project instructions and Bureau policy, and with the national standards of accuracy. It supersedes all other surveys covering the common area and should be used for further nautical chart construction.

Reviewed by:

Roscoe J. French
Roscoe J. French

APPROVED BY:

A. V. Griffith
Chief, Review Section
Div. of Photogrammetry

H. R. Edmonston
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Div. of Photogrammetry

W. M. Scaife
Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 787385

Record of Application to Charts

[illegible]

M.2168-1

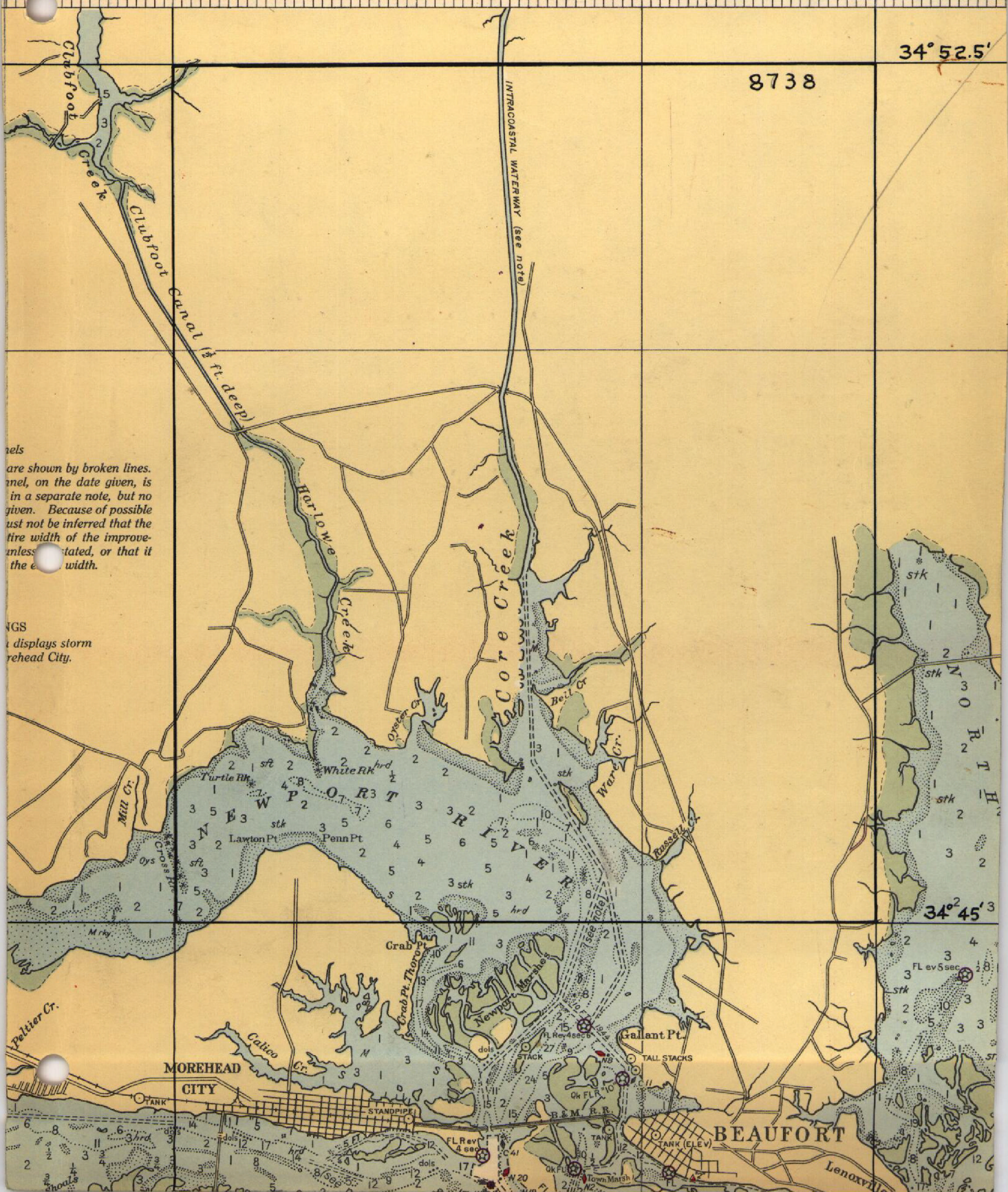
A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

45'

76°40'

34°52.5'

8738



are shown by broken lines.
nel, on the date given, is
in a separate note, but no
given. Because of possible
must not be inferred that the
fire width of the improve-
unless stated, or that it
the width.

NGS
a displays storm
rehead City.