

8737

Diag. Cht. No. 1234-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. \_\_\_\_\_ Office No. T-8737

LOCALITY

State North Carolina

General locality Newport River

Locality Newport

194 6-'49

CHIEF OF PARTY

R.J.Sipe, Chief of Field Party

R.A.Gilmore, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE April 19, 1950

B-1870-1 (1)

8737

## DATA RECORD

T- 8737

Quadrangle (II): Newport

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  
Field undatedCopy filed in-Descriptive  
Report No. T- ~~(VI)~~  
Division of Primary Files-office  
~~Review Section~~Completed survey received in office:  
10-14-48Reported to Nautical Chart Section:  
10-21-48

Reviewed: 16 March 50 Applied to chart No. Date:

Redrafting Completed:

Registered: 1 Apr.  
29 Apr 1950 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): NEWPORT, 1931

Lat.: 34° 46' 32."540 (1002.7m) Long.: 76° 51' 39."538 (1005.3m) Adjusted  
~~1000.000000~~

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>
16242	11 Apr. 1946	1043	1: 20,000	Inshore Quadrangle
16243	11 Apr. 1946	1045	"	No perceptible tide
16015	5 Apr. 1946	1604	"	
16016	5 Apr. 1946	1605	"	

Tide from (III): No tide

Mean Range: \_\_\_\_\_ Spring Range: \_\_\_\_\_

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

Field Inspection by: S. Becker,  
R.A. Horn

date: 8/13/47-9/29/47  
10/1/47-12/4/47

Field Edit by: *E.T. Jenkins*

date: *May 1949*

Date of Mean High-Water Line Location (III): Date of photographs.

Projection and Grids ruled by (III) H.K. (Wash. O.) date: 11/18/47

" " " checked by: T.L.J. " date: "

Control plotted by: R. Dossett date: 1 Mar. 1948

Control checked by: I.I. Saperstein date: 2 Mar. 1948

Radial Plot by: M.M. Slavney date: April 1948

Detailed by: R. Dossett date: June-July '48

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

Map Manuscript

Elevations on ~~Field Plot Sheet~~  
checked by: W.H. Shearouse

date: Sept. 1948

STATISTICS (III)

Land Area (Sq. Statute Miles): 61.3

Shoreline (More than 200 meters to opposite shore): 1

Shoreline (Less than 200 meters to opposite shore): 12

Number of Recoverable Topographic Stations established: 4

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: 20

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-8737  
(Topographic)

T-8737 is one of a series of 37 7½-minute quadrangles in Project Ph-5(45) in North Carolina. It is almost entirely within the Croatan National Forest, and includes the towns of Newport and Harlowe and most of the upper reaches of the Newport River.

T-8737 is composed of but one map manuscript, and was compiled entirely from 1:20,000 nine-lens photographs.

The several mapping operations are as follows:

- a) Nine-lens photography and laboratory processing at 1:20,000 scale.
- b) Field work included shoreline inspection, establishment and identification of horizontal and supplemental vertical control, planetable contouring, clarification of photographic detail, and geographic names investigation.
- c) Radial line plot and graphic compilation.
- d) Preliminary office inspection.
- e) Field edit and ~~completion~~ *application to manuscript*.
- f) Final review of the manuscript to ensure completeness and conformance with specifications and project instructions, and to include additions and corrections from the field edit survey of 1949.
- g) Processing - A 1:20,000 scale glass plate negative of the manuscript will be prepared for transmittal to the Geological Survey.

T-8737 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-8737) will be filed and may be obtained as follows:

- a) Filed in the Division of Photogrammetry
  - 1) The map manuscript (original) 1:20,000 topo. with field edit and final review corrections applied.

- 2) Field edit sheet
- 3) Form 524 topographic station descriptions (4)
- b) Filed in the Bureau Archives
  - 1) Descriptive report
  - 2) A cloth backed lithographic print of T-8737  
at 1:20,000 scale.

When T-8737 is published, a cloth backed copy of the printed map at 1:24,000 scale will also be registered.



## FIELD INSPECTION REPORT

Quadrangle T-8737 (36-45/76-45/7.5')

Project Ph-5(45)

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; Supplement #1 to the above, dated 11 November 1946; Photogrammetry Instructions No. 10, dated 4/14/47; and Photogrammetry Instructions No. 15, dated 6/16/47. The field <sup>work</sup> on this quadrangle was done by the following personnel:

<u>Name &amp; Title</u>	<u>Field Work</u>	<u>Dates</u>
W. M. Reynolds Engineering Aid	Vertical Control Recovery and Fly Levels	8/11/47 8/12/47
M. A. Stewart Engineering Aid	Third Order Levels	12/10/46 12/12/46
Seymour Becker Engineering Aid	Contours and Inspection	8/13/47 9/29/47
R. A. Horn Photogrammetrist	Contours and Inspection	10/1/47 12/4/47

1. Description of the Area

The land area is primarily of a wooded nature. A small percentage of the acreage is under cultivation, but poor drainage is a constant source of difficulty for the farmers. Much of the land mass is known as "Pocosin", which is a generally flat plateau having very poor drainage. The ground is covered with a thick humus and matted vegetation. If these areas were drained artificially they would constitute a serious fire hazard. As they are, although generally very wet, they do produce some timber.

U. S. Highway #70 and the Atlantic and East Carolina Railroad cross the southwest corner of the quadrangle.

Newport, North Carolina is the largest settlement within the limits of this quadrangle.

2. Completeness of Field Inspection

It is felt that the field inspection is complete and adequate. No phase was deliberately left for field edit to complete.



### 3. Interpretation of the Photograph

Photographs of this quadrangle were of a recent date and no difficulty was experienced in the interpretation of same. Generally, in the wooded areas, the darker tones consist of dense vegetative growth. Despite the fact that these regions are frequently quite high, they are very wet due to inadequate drainage.

### 4. Horizontal Control

All horizontal control stations were recovered.

Stations and Azimuth Marks are located on photographs by substitute stations, and photo station methods.

### 5. Vertical Control

All Bench Marks were recovered and identified on the photographs.

A third order level line was run and Bench Marks established along North Carolina Highway #101.

Twenty miles of supplementary fly levels were also run to facilitate contouring.

### 6. Contours and Drainage

Contouring was done on the 9-lens, 1:20,000 scale photographs. Contouring was hampered by the relative inaccessability of much of this area. However it is felt that the contours as shown give an accurate picture of the relief.

### 7. Mean High Water

There is no perceptible periodic tide within the limits of this quadrangle therefore the mean high water line should be shown as photographed.

### 8. Low Water Line

The low water line and mean high water are practically synonymous.

### 9. Wharves and Shoreline Structures

The very few shoreline structures are indicated adequately on the photograph.

### 10. Details Offshore from Mean High Water Line

At the extreme southeastern limits of this quadrangle, in the Newport River, shoals have built up that greatly retard the flow of the river,

which increases the local problem of drainage. Only very shallow draft boats can proceed beyond this point.

# 11. Landmarks and Aids to Navigation

There are no landmarks or aids to navigation in the quadrangle.

# 12. Hydrographic Control

No additional hydrographic control was established in this quadrangle.

# 13. Landing Fields and Aeronautical Aids

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

# 14. Roads

The roads were classified according to Photogrammetry Instructions No. 10, dated 4/14/47.

# 15. Bridges

All bridge information for the area covered by this report as listed in the U.S. Engineers "List of Bridges Over Navigable Waters in the U. S.", dated July 1, 1941 was verified in the field, all clearances were carefully measured with a steel tape, and the following discrepancies were found in the published descriptions and clearances.

(a) HARLOWE BRIDGE is now a fixed bridge.

Horizontal Clearance		Vertical Clearance	
Bridge Book	C. & G. Survey	Bridge Book	C. & G. Survey
29.8'	19.3'	4.9' (HW)	7.4' (MHW)

(b) Newport River Highway Bridge (fixed)

Bridge Book	C. & G. Survey	Bridge Book	C. & G. Survey
37.6'	39.6'	0.3 (HW)	7.0 (MHW)

(c) Newport River Railroad Bridge is now a fixed bridge.

Bridge Book	C. & G. Survey	Bridge Book	C. & G. Survey
19.0	18.3	9.0 (HW)	6.0 (MHW)

These discrepancies were reported to the Local District Engineer.

# 16. Buildings and Structures

Adequately shown on the photographs.

# 17. Boundary Monument and Lines

The positions of the boundary monuments of the Carteret -Craven County Line have been pricked and labeled on the photograph.

No monuments of the Croatan National Forest were found. Signs indicating the forest were not pricked because they were not in position on the line. However, there should be no difficulty in the com-

pilation of this boundary as it was the subject of a special report by Mr. A. J. Wraight, Topographic Engineer.

The boundary of Newport, North Carolina is shown on the photograph.

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.

Submitted:

Date: 27 Feb. 1948

R. A. Horn  
R. A. Horn  
Photogrammetrist

Approved:

Date: 27 Feb. 1948

Riley J. Sipe  
Riley J. Sipe  
Chief of Party

[illegible]

12.

COMPILATION REPORT  
TO ACCOMPANY  
QUADRANGLE T-8737

26 AND 27. CONTROL AND RADIAL PLOT:

These are the subject of a special report submitted 4 August 1948 to the Washington Office by M.M. Slavney, Photogrammetric Engineer. *Filed in Div. Photogr. General Files.*

28. DELINEATION:

The delineation of this map manuscript has been done according to the latest instructions for the delineation of Topographic Manuscripts.

The field inspection was satisfactory except for vegetation. *delete name on ms.* Particular attention is called to the area labelled "Oglesby's Swamp" on the Map Manuscript. The field inspector's report refers to this area and states that it is known as "Pocosin" and goes on to describe it in terms that indicated to the compiler that it was swamp. On the other hand the field prints carried the label "T". This has been called to the attention of the Field Editor on the discrepancy overlay.

There was no vegetation inspection on field photograph 16243 which covers the vicinity of Newport; nor did the field inspector show a "SW" symbol anywhere on the field prints. Attention is called to the foregoing because of the distinctly swampy appearance of the areas along the Newport River and its tributaries as contrasted with the area carrying the geographic name "Oglesby's Swamp." The compiler has outlined and delineated the apparent swamp as such and labelled the "Pocosin" area "T". A check was requested of the field editor. *Resolved ok.*

The photo points established by the field inspector were too close together for obtaining a high degree of accuracy in plotting the Azimuth stations for which they were established. This was particularly true for Godett Az. Mk. and Harlowe 2 Az. Mk. where the established photo points were only 30 and 40 meters apart. A check after plotting, however, proved them to agree with the published azimuth.

29. SUPPLEMENTAL DATA:

None used.

30. MEAN HIGH-WATER LINE:

Shown as photographed.

31. LOW WATER AND SHOAL LINES:

See item 8 of field inspection report.

32. DETAILS OFFSHORE FROM THE HIGH WATER LINE:

See item 10 of Field Inspection Report.

Attention to the foregoing comment of paragraph 10, Field Inspection Report, has been called to the attention of the field editor on the discrepancy overlay.

33. WHARVES AND SHORELINE STRUCTURES:

Delineated as shown by field inspection.

34. LANDMARKS AND AIDS TO NAVIGATION:

There are no landmarks or aids to navigation in the quadrangle.

35. HYDROGRAPHIC CONTROL:

No additional hydrographic control was established in this quadrangle.

<sup>4</sup>  
Three topographic stations are being submitted on form 524. *Filed in Div. Photogr. General Files.*

36. LANDING FIELDS AND AERONAUTICAL AIDS:

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

37. CONTOURS:

See item <sup>6</sup> of Field <sup>Inspection</sup> Editor's Report. <sup>7</sup>  
and 48 of "Editors"

38. POLITICAL BOUNDARIES:

The Political boundaries have been applied to this manuscript according to the information submitted by the Washington Office.  
*See 61. review report.*

The boundary of the Croatan National Forest has been delineated as shown on the geographic name sheet.

The city limits of Newport were taken from field photograph 16243.



39. GEOGRAPHIC NAMES: 91

Geographic names shown on the name sheet received from the Washington Office have been applied to the Map Manuscript. *List of names approved by Geographic Names Sect. Div of Charts, is attached to this report.*

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

None available for a comparison.

45. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with U.S.C. & G.S. Nautical Chart No. 420, scale 1: 40,000, published February 1937 (24th edition) and revised to 20 July 1946.

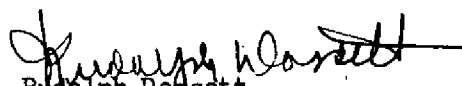
Attention is called to the shoreline at the point where the Newport River main tributary enters Newport River proper. The chart shows the shoreline extending inshore to form a sharp small bay; whereas, by the photographic compilation this is eliminated and the shoreline has become regular.

"Clubfoot Canal" is now "Harlowe Canal." 814 ✓


There is no inland charting for comparison.

Data on this Map Manuscript should supersede the present charted information.

Respectfully submitted,

  
Rudolph Dossett  
Cartographer, (Photo.)

Approved and Forwarded:

  
Ross A. Gilmore  
Chief of Party. 10/8/48

15.

FIELD EDIT REPORT  
Quadrangle T-8737  
34-45.0' - 76-45.0'/7.5'  
Project Ph 5 (45)

E. R. McCarthy, Chief of Party

The field edit of this quadrangle was accomplished during the month of May, 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 plane table methods.

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

Discrepancies, where not settled directly on the discrepancy print or photographs, are discussed in the body of this report.

47 ADEQUACY OF THE COMPILATION

The compilation was adequate considering the extent of the field inspection. Most 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

A vertical accuracy test was run east and north of Newport, as designated on the discrepancy print. The test was run between B.M. H-145 and B.M. J-145. Standard plane table methods were used and the test was made directly on the field edit sheet. The horizontal and vertical closures were negligible and no adjustments were necessary. The vertical closure is shown on the field edit sheet. The test indicates that, with the exception of one small area, the area tested meets the required mapping accuracy. The error found was due to the freedom of sketching.

3. INTERPRETATION OF THE PHOTOGRAPHS (See also Par.28 of this Report)

In five noted areas on the photographs, photographic tones are explained as follows:

In area 1, photograph 16243, what appears to be a small swamp is actually a heavy growth of briars, evergreen bushes, and scattered pines. This is caused by these depressed areas retaining more moisture than the slightly higher ones.

In areas 2 and 3, the trees of the darker tone are pines. These are generally found at the swamps edge. The grayish tone that joins with the pines at the swamps limit is caused by gum, water oak, and cypress trees.

In area 4, there is a growth of young pines with an under growth of briars and evergreen bushes. In area 5, the young pines have no undergrowth except scattered sedge grass. As a rule, areas such as 5 are of a slightly higher elevation than areas such as number 4.

In area 6- Photograph 16015- the dark tone is caused by the burned under brush and grass among the young pines. This should be shown as a tree area.

#### 14. ROAD CLASSIFICATION

All road classification changes were made in accordance with the amendment to Photogrammetry Instructions Number 10, dated 24 October, 1947.

#### 17. BOUNDARY MONUMENTS AND LINES

The city limits of Newport, N. C. are nearly shown correct. These limits follow natural boundaries with the exception of part of the northern line. This part of the boundary is shown on the field edit sheet. The description submitted with the boundary report is correct. The Field Inspector's delineation is slightly in error.

#### 18. GEOGRAPHIC NAMES

~~See Supplemental Report attached.~~

#### 49 SWAMPS AND SWAMP LIMITS

See also Par. 3 and 25 of this report.

The swamp limits of this quadrangle have been delineated as requested. The discussion of photographic tones under item three should assist the compiler. In several areas, measurements were made from topographic features to check the limits shown.

In 34-50/76-50 the area is shown as a swamp. This area is flat, sandy land with a clay sub-soil. During the rainy season it has

17.

- 8 -

several intermittent ponds, which drain by seepage. It is covered, at present, with briars, evergreen bushes, and young pine and should be classified as woodland.

OK RIF

MISCELLANEOUS

The copy of the map manuscript was examined for errors by Messers. F. T. Jones and A. R. Craig of Newport, N. C.

Mr. Jones has been a resident of Newport for 40 years, and is now employed as a dispatcher for the National Forest Service.

Mr. Craig is the Mayor of Newport and is interested in seeing a good map produced of this area.

Neither Mr. Jones nor Mr. Craig could find any errors in the corrected copy.

The celluloid overlay with contours at the Junction of T 8736 - T 8737 is submitted for clarity as the photos (16243 and 16244) are sufficiently cluttered.

Respectfully submitted:  
20 June, 1949

*E. T. Jenkins*  
Elgar T. Jenkins by Joseph K. Wilson  
Cartographer

Approved:  
30 June, 1949

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

# GEOGRAPHIC NAMES

Survey No. T-8737

GEOGRAPHIC NAMES											
Survey No. T-8737											
Name on Survey											
	A	B	C	D	E	F	G	H	K		
North Carolina										USGB	1
Craven County											2
Township 5											3
Carteret County											4
Newport Township											5
Morehead Township											6
Croatan National Forest											7
Atlantic and East Carolina R.R.											8
U. S. No. 70											9
State No. 101 (under construction) also New Bern Road											10
Newport River											11
Mill Creek											12
Mill Creek (town)											13
The Narrows											14
Little Creek Swamp											15
Black Creek											16
Mill Pond											17
Lodge Creek											18
Sandy Branch											19
Hull Swamp											20
Mill Creek Road											21
Snows Swamp Branch											22
Hibbs Road											23
Craven Corner											24
Harlowe											25
North Harlowe Baptist Church											26
Maine Prong			(X)								27

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# GEOGRAPHIC NAMES

Survey No. T-8738

Name on Survey	GEOGRAPHIC NAMES										19.
	Survey No. T-8736										
	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			
A	B	C	D	E	F	G	H	K			
Smiths Swamp ✓										1	
Smiths Swamp Branch										2	
Blakes Branch ✓										3	
Newport ✓										4	
Newport Consolidated School										5	
Newport Fire Tower ✓										6	
Newport Highway Bridge										7	
Newport Railway Bridge										8	
School House Branch ✓										9	
Laurel Branch ✓										10	
Deep Creek ✓										11	
Little Deep Creek										12	
Union Point ✓			(locality)							13	
Hancock Creek ✓			(not Hancocks)							14	
Deep Branch										15	
Mocoeks Branch										16	
Hymans Chapel ✓										17	
Pilgrims Rest Church										18	
Mortons Mill Pond										19	
West Prong										20	
East Prong										21	
North Harlowe ✓										22	
Harlowe Canal ✓								New USGB		23	
Harlowe Bridge										24	
Clubfoot Creek ✓										25	
										26	
										27	

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# GEOGRAPHIC NAMES

Survey No. T-8737

GEOGRAPHIC NAMES												20.
Survey No. T-8737												
Name on Survey		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			
A	B	C	D	E	F	G	H	K				
Ghouls Fork											1	
Money Island Swamp											2	
Billys Branch											3	
											4	
											5	
					2/24/49						6	
					I. Heck						7	
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Review Report T-8737  
16 March 1950

61. General Statement.-Township lines were added from a map of Carteret County submitted and notarized by the county authorities dated February 7, 1949. It supersedes previously defined township boundaries for Carteret County.

The Croatan National Forest boundary is in agreement with <sup>that on</sup> the USDA Forest Service map dated 1946.

62. Comparison with Registered Topographic Surveys.-

1328	1:20,000	1873
5047 Supp.	"	1933 Air Photo compilation
5574	"	1933 Air Photo Compilation

This survey, T-8737, unqualifiedly supersedes <sup>for nautical charting</sup> 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
1234	1:80,000	10-3-49

Identification of the limits of the shallow area where the Newport River narrows down to the Narrows is not discernible on the photographs and could not be shown.

No rock awash (as such) was identified at Cross Rock in the Newport River. This feature appears to be a sand or shell bar and is shown with a low water symbol only.

66. Adequacy of Results and Future Surveys.-A vertical accuracy test was made NE of the town of Newport. Notes were made directly on the field edit sheet and the contours were found to be correct as shown.

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

Page 2  
T-8737

APPROVED BY:

L. V. Griffith  
Chief, Review Section *L.H.M.*  
Div. of Photogrammetry

J. M. Edmonston  
Chief, Nautical Chart Branch  
Division of Charts

O. S. Reading *MSG.*  
Chief, Div. of Photogrammetry

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

## NAUTICAL CHARTS BRANCH

SURVEY NO. 8737

### 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.