

# 8740

Davis, N.C.

N&S

Diag. Cht. No. 1233

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. \_\_\_\_\_ Office No. T-8740

#### LOCALITY

State North Carolina

General locality Core Sound

Locality Styron Bay to Davis Island

1946-'49

#### CHIEF OF PARTY

R.J. Sipe, Chief of Party

R.A. Gilmore, Tampa Photo. Office

#### LIBRARY & ARCHIVES

DATE February 24, 1950

B-1870-1 (1)

# 8740

## DATA RECORD

T- 8740

Quadrangle (II):

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

Field Office: Morehead City, N.C. Chief of Party: Riley J. Sipe  
Lieut. Comdr.Compilation Office: Tampa, Fla. Chief of Party: Ross A. Gilmore  
Lieut. Comdr

Instructions dated (II III): Undated

Copy filed in Descriptive *Div of Photogram*  
~~Report No. T- (VI)~~ *Office Files*Completed survey received in office: *7/27/48*Reported to Nautical Chart Section: *8/3/48*Reviewed: *11/18/49**Part.*  
Applied to chart No. *1233*  
*420*Date: *11/17/48*  
*7/14/49*

Redrafting Completed:

Registered: *12/27/49*

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): Stacy, 1933

Lat.:  $34^{\circ} 49' 53.177''$  (1638.6m) Long.:  $76^{\circ} 25' 12.873''$  (327.1m) Adjusted  
~~Unadjusted~~State Plane Coordinates (VI): *N. Carolina 2 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>
See 1:10,000 report for 1:10,000 photographs.				
16001	5 April 1946	1525	1:20,000	Shoreline not delineated from 1:20,000 photographs
16002	"	1525	"	
16020	"	1612	"	
16021	"	1612	"	
16023	"	1619	"	
16024	"	1619	"	

Tide from (III): Hampton Roads (~~MHW at Davis Islands 0.4 feet~~)

*See Descriptive Report for Shoreline Survey*  
Mean Range: ~~Davis Islands 0.2 ft.~~ Spring Range:

Camera: (Kind or source) USC&GS nine-lens 8 $\frac{1}{4}$ " focal length .

M.F. Kirk

M.A. Stewart

Field Inspection by: S.J. Hathorn

date: 8 Jan. 1947 to  
21 July 1947

D.G. Flippo

R.A. Horn

Field Edit by:

*E.T. Jenkins*

date: *January 1949*

Date of Mean High-Water Line Location (III): 15 February 1947 to  
27 March 1947

Projection and Grids ruled by (III) T.L.J. (Wash. O.) date: 30 Oct. 1947

" " " checked by: H.D.W. (Wash. O.) date: 30 Oct. 1947

Control plotted by: R. Dossett date: 25 Nov. 1947

Control checked by: R.A. Reece date: 26 Nov. 1947

Radial Plot by: E.C. Andrews & Russell J. Pate date: 8 April 1948

Detailed by: I.I. Saperstein date: May, 1948

Reviewed in compilation office by: J.A. Giles date: July, 1948

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

date: July, 1948

STATISTICS (III)

Land Area (Sq. Statute Miles): 27

Shoreline (More than 200 meters to opposite shore): 42.5 statute miles

Shoreline (Less than 200 meters to opposite shore): 11 statute miles

Number of Recoverable Topographic Stations established: 26

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: 28

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-8740

T-8740 is one of a series of eight quadrangles in Project Ph-5(45) which are composed of three separate map manuscripts; i.e., one standard 7½-minute topographic quadrangle, scale 1:20,000, and one N/2 and S/2 shoreline map manuscript, scale 1:10,000, which are 3 3/4' in latitude and 7½' in longitude.

The two descriptive reports, one covering the topographic map and the other the shoreline map, have been combined.

The several mapping operations were:

- (a) Nine-lens photography and laboratory processing, 1:20,000 scale and 1:10,000 scale.
- (b) The field work including identification of shoreline; identification and establishment of horizontal and vertical control, planetable contouring, clarification of photographic detail and geographic names investigation. No shoreline was identified on the 1:20,000 photographs.
- (c) Compilation by graphic methods. A reduction of the shoreline compilation which is limited to an alongshore zone approximately 200 meters wide was traced directly to the 1:20,000 scale topographic compilation.
- (d) Preliminary office inspection.
- (e) Field edit.
- (f) Final review of the manuscripts to ensure completeness and conformance with specifications, and to include corrections in accordance with the field edit survey.
- (g) Processing  
A 1:20,000 scale glass plate negative of the topographic map will be prepared for transmittal to the Geological Survey.

T-8740 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 of March 25, 1947.

Data pertaining to T-8740 will be filed and may be obtained as follows:

- (a) Filed in the Division of Photogrammetry
  - 1. Three map manuscripts, T-8740 scale 1:20,000, T-8740 N and S., scale 1:10,000; field edit and final review corrections applied.
  - 2. Field edit sheet.

(b) Filed in the Coast and Geodetic Survey Archives

1. Combined Descriptive Report
2. A cloth-backed lithographic print of T-8740 at 1:20,000 scale.
3. A 1:10,000 scale cloth-backed lithographic print of shoreline map T-8740 N/ 2 and S/2.
4. When T-8740 is published, a cloth-backed copy of the published map, at a scale of 1:24,000 will be registered.



# FIELD INSPECTION REPORT

T-8740 (34-45/76-22.5/7.5)

Project Ph 5 (45)  
Sub-project ~~A~~ B

Riley J. Sipe, Chief of Party

All phases of the field work were done in accordance with The Directors Instructions, Project Ph-5 (45), Field, undated; Supplement 1 to the above, dated 11 December 1946; and Photogrammetry Instructions numbers 10 and 15, dated 4/14/47 and 6/16/47 respectively.

The field work on this quadrangle was accomplished by the following personnel:

<u>Name &amp; Title</u>	<u>Field Work</u>	<u>Dates</u>
M. F. Kirk, Topographic Engineer	Contours and Interior Inspection.	18 March 1947 - 21 July 1947
M. A. Stewart, Engineering Aid	Levels and Vertical Control Recovery.	8 Jan 1947 - 27 Feb. 1947
S. J. Hathorn, Photogrammetrist	Shoreline and Recovery (Banks)	15 Feb 1947 - 28 Feb 1947
D. G. Flipppo, Photogrammetric Aid	Shoreline and Recovery (Mainland)	18 Feb 1947 - 27 Mar 1947
R. A. Horn, Photogrammetrist	Contours and Inspection (Banks)	18 Mar 1947 - 18 Mar 1947

## 1. Description of Area.

The land area of this quadrangle is in two portions, the larger of which is the mainland. The smaller portion is that section of Core Banks which falls within the quadrangle limits. These two land masses are divided by Core Sound which runs, approximately, from the southwest to the northeast corner of the quadrangle.

The two most important settlements in the area are Davis, North Carolina and Sea Level, North Carolina. In addition there are some farms along U. S. Highway # 70, which is the only through highway in the quadrangle.

The principle occupation of the inhabitants of this area is in securing fish, oysters, clams, and shrimp from the adjacent waters.



A considerable section of the mainland is referred to locally as the "Open Grounds". Actually this is a tangle of underbrush and briars thriving on very swampy land. Interspersed in this area are some stands of Pine; however they are of little importance commercially due to their inaccessability. Generally speaking the "Open Grounds" could be considered useless except for the wildlife it might maintain.

## 2. Completeness of Field Inspection.

It is felt that the field inspection is complete and adequate.

## 3. Interpretation of the Photographs.

Since photography was of a recent date no difficulty was encountered in the interpretation of the photographic detail.

## 4. Horizontal Control.

All horizontal control stations were searched for or recovered in this quadrangle. Four triangulation stations were identified on the photographs for use in control of the radial plot.

## 5. Vertical Control.

Vertical Control consisted of the recovery of existing Bench Marks, and the establishment of Bench Marks with 3rd Order accuracy along U. S. Highway # 70.

On Core Banks four miles of fly levels were run to facilitate contouring.

## 6. Contours and Drainage.

Contouring was done on 1:10,000 scale photographs in the Core Banks area. On the mainland 1:20,000 scale photographs were used.

Normal planetable procedures were employed in contouring and in the location of drainage. However, due to the nature of the "Open Grounds" as previously mentioned, a pedograph and hand level lines were used to some extent.

Drainage on the mainland is pronounced near the shoreline. The headwaters, however, are very indefinite since they originate in the "Open Grounds". No definite pattern exists here because the rainfall is eliminated by seepage and travels to the headwaters of the drains via underground passages.

On the Core Banks the rainfall is eliminated by an irregular runoff, since with each storm tide the temporary drainage patterns are altered.



#### 7. Mean High Water Line.

The greater part of the shoreline was inspected either by walking along shore or by small boat, and measurements to mean high water were taken where it was considered necessary. There is very little fast shoreline in the entire quadrangle, being almost entirely apparent shoreline (marsh). Some changes were noted on the photographs especially on small sand bars along shore at the edge of the marsh; some of these having built up and others being washed out by high water. These bars show on the photographs as a narrow white sand line along the marsh edge.

#### 8. Low Water Line.

There is very little tide change in this area and therefore not a very perceptible distance between mean high and mean low water lines.

#### 9. Wharves and Shoreline Structures.

All wharves and shoreline structures are discernable on the photographs and have been labeled.

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

All details visible from the shoreline are discernible on the photographs and have been labeled.

#### 11. Landmarks and Aids to Navigation.

All existing landmarks have been pricked and labeled on the photographs and Form # 567 submitted. Those to be deleted have been reported on Form # 567 also. Davis Shore SW Church Spire was blown off its base by a wind-storm in 1933 but was rebuilt on the same base. It lost its position as a triangulation station but is still to be used as a landmark. Davis Shore NE Church Spire has been completely destroyed and the entire church moved to a different location.

Six non-floating Aids to Navigation are found along the Core Sound Channel, one of these has been pricked and labeled on photograph # 16193. The remaining five were located by sextant (three point fix method).

#### 12. Hydrographic Control.

In accordance with the instructions for this project the existing horizontal control was supplemented by Topographic Stations in order to have horizontal control at not more than one mile intervals. Where natural objects were not available these stations were marked by standard topographic station disks set in top of 6" round (precast) monuments.



13. Aeronautical Aids and Landing Fields.

There are no Aeronautical Aids or Landing Fields within the limits of this quadrangle.

14. Road Classification.

All roads are classified in accordance with Photogrammetry Instructions No. 10, dated 4/14/47.

15. Bridges.

There are no bridges over navigable waters within this quadrangle.

16. Buildings and Structures.

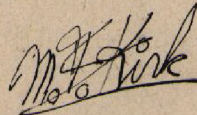
These items are adequately covered on the photographs.

17. Boundaries.

~~There are no boundaries to be located in this quadrangle.~~ See review report

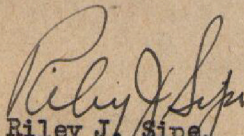
18. Geographic Names.

Geographic Names will be the subject of a special report by Mr. A. J. Wraight, Topographic Engineer.



M.F. Kirk,  
Topographic Engineer

Approved:



Riley J. Sipe,  
Chief of Party



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

**TO BE CHARTED** } **STRIKE OUT ONE**

**TO BE FILLED IN**

# NONFLOATING AIDS: GROUND MARKS FOR CHARTS

Washington, N.C.

Detachable

1961  
8748

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

The positions given have been checked after listing by **Irving I. Superstein**

**Tampa Photographic Office**

**Riley J. Sipe**  
*Chief of Party.*

[illegible]

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



# NONFLOATING AIDS OR LANDMARKS FOR CHARTS

**STRIKE OUT ONE**

Morehead City, N.C.

30 March 1947

I recommend that the following objects which have ~~have not~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by R. Dossett, Tampa Photogrammetric Office

[illegible]

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.







**STRIKE OUT ONE**

# NONFLOATING AIDS FOR LANDMARKS FOR CHARTS

**Morehead City, N. C.**

30 March 1947

I recommend that the following objects which have ~~(not been)~~ been inspected from seaward to determine their value as landmarks, be ~~started on~~ *(deleted from)* the charts indicated.

The positions given have been checked after listing by

D. G. Flippo, Photo. Aid

[illegible]

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.

**October:**

Irving L. Seperstein  
Tampa Photogrammetric Office

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* aids to navigation, if referenced, shall be reported on this form. The data should be considered for the charts of the area and not by the chart of the aid to navigation.



[illegible]











COMPILATION REPORT  
TO ACCOMPANY  
TOPOGRAPHIC MANUSCRIPT T-8740

26 AND 27. CONTROL AND RADIAL PLOT:

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

28. DELINEATION:

Part of this manuscript was traced directly from a 1:20,000 reduction of Shoreline Manuscript T-8740 with few minor changes. The remainder of the detail, not shown on the shoreline manuscript, was delineated from 1:20,000 photographs which were of fair scale.

Detail points were scattered over the shoreline area to check the 1: 20,000 plot. These points held very well or were well within the limits of accuracy.

Additional detail points were cut in for areas which were not covered by the shoreline manuscript.

Because of lack of identifiable detail and poor scale photographs in the "Open Grounds," the contours were delineated by the projector method.

Discrepancies to be checked by the field editor have been noted on the discrepancy overlay.

29. SUPPLEMENTAL DATA:

None was used.

30. MEAN HIGH-WATER LINE:

See 1: 10,000 Shoreline Descriptive Report.

31. LOW-WATER AND SHOAL LINES:

See 1: 10,000 Shoreline Descriptive Report.

Shoal lines were omitted from this manuscript, but may be found on the 1: 10,000 shoreline sheets.

32. DETAIL OFFSHORE FROM THE HIGH WATER LINE:

All offshore detail was delineated according to the field inspector's notes.

33. WHARVES AND SHORELINE STRUCTURES:

See 1: 10,000 Shoreline Descriptive Report.

34. LANDMARKS AND AIDS TO NAVIGATION:

See 1: 10,000 Shoreline Descriptive Report.

35. HYDROGRAPHIC CONTROL:

All photo-hydro stations were omitted on this manuscript but may be found on the 1: 10,000 shoreline sheets.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

See 1: 10,000 Shoreline Descriptive Report.

37. GEOGRAPHIC NAMES:

All geographic names submitted have been applied to the manuscript.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

See 1: 10,000 Shoreline Descriptive Report.

45. COMPARISON WITH NAUTICAL CHARTS:

See 1: 10,000 Shoreline Descriptive Report.

Respectfully submitted,

*Iving J Saperstein*

I.I. Saperstein  
Photogrammetric Aide

Approved and Forwarded:

*Ross A. Gilmore*

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



# GEOGRAPHIC NAMES

Survey No.

T-8740

7 $\frac{1}{2}$ ' quad

1 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	
North Carolina ✓								USGB	1
Carteret County ✓									2
Atlantic Ocean ✓									3
Cora Banks ✓								USGB	4
Cora Sound ✓									5
Open Grounds ✕	(large area, on several quads.)								6
U.S. No. 70 ✓									7
									8
Johnson Creek ✓									9
Goose Island ✓									10
Shingle Point ✓									11
Great Island Bay ✓									12
Bouglas Point ✓									13
Stone Point ✓									14
Bean Island ✓									15
Great Island ✓									16
Fortin Island ✓								USGB	17
Fortin Bay ✓									18
Great Island Point ✓									19
Great Island Point Creek ✓									20
Horse Island ✓									21
Horse Island Cove ✓									22
Horse Island Point ✓									23
Horse Island Creek ✓									24
The Swash ✓									25
Head of the Hole ✓									26
Carteret Road and Gun Club ✓									27
Old Channel Point ✓									28

# GEOGRAPHIC NAMES

Survey No. T-8740

2	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
	Sealevel ✓			(one word)						1
	Mill Point ✓									2
	Mill Point Shoal									3 <sup>?</sup>
	Drum Point ✓									4
	Long Point ✓									5
	Short Point ✓									6
	Styron Bay ✓								USCB	7
	Live Oak Creek	Too Small to show								8
	Styron Creek ✓									9
	Cedar Creek ✓									10
	Nelson Bay ✓									11
	Nelson Bay Hole ✓									12
	Breen Point ✓									13
	Masontown ✓									14
	Lewis Creek ✓									15
	Pasture Creek ✓									16
	Willis Creek ✓									17
	Cedar Point ✓									18
	Stacy * ✓									19
	Stacy Grade School * ✓									20
	Stacy Cemetery * ✓									21
	Fulchers Creek ✓								USCB	22
	Maria Creek ✓									23
	Cotton Hammock * ✓								?	24
	Piney Point ✓									25
	Salters Lumps ✓			(not Big Island)						26
	Big Island ✓			(not Little Island)						27



## GEOGRAPHIC NAMES

Survey No. T-8740

3	Name on Survey	A	B	C	D	E	F	G	H	K	
	<u>Brett Bay</u> ✓			(not Piney I. Bay: an oldname like this cannot be changed except by USBGN decision)							1
	<u>Fork Creek</u> ✓										2
	<u>King Point</u> ✓										3
	<u>King Point Marsh</u> ✓										4
	<u>Fishing Point</u> ✓										5
	<u>Oyster Creek</u> ✓										6
	<u>Oyster Creek Bridge</u> ✓		no								7
	<u>Big Bay</u> ?		Too small to show							8?	
	<u>Maraurs Creek</u> ✓		Too small to show							9?	
	<u>Piney Point Channel</u> ✓		no								10
	<u>Davis</u> ✓										11
	<u>Murphy Cemetery</u> ✓										12
	<u>Davis Landing</u> ✓										13
	<u>Davis Marsh</u> ✓										14
	<u>Ditch Cove</u> ✓		(not Davis Creek)							15	
	<u>Jarrett Bay</u> ✓										16
	<u>Smyrna Creek</u> ✓										17
	<u>Broad Creek</u> ✓										18
	<u>Broad Creek Marsh</u> ✓										19
	<u>Howland Point</u> ✓		(at new position)							20	
	<u>Pasture Point</u> ✓		(not Howland Point)							21	
	<u>Howland Creek</u> ✓									USGB	22
	<u>Cornerib Point</u> ✓		(not Dill <sup>w</sup> ow Point)							23	
	<u>Great Creek</u> ✓		(not Procks Creek)							24	
	<u>Procks Point</u> ✓										25
	<u>Davis Ridge</u> ✗ ✓										26
	<u>Spit Bay</u> ✓										27

M 234



# GEOGRAPHIC NAMES

Survey No.

T-8740

4

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
			(not Spit Point)					1
								2
								3
								4
								5
								6
								7
								8
								9
								10
								11
								12
								13
								14
								15
								16
								17
								18
								19
								20
								21
								22
								23
								24
								25
								26
								27

Does not appear on T-8746 - changed to Slough  
(make it uniform with T-8746, whether  
Slue or Slough) (preferably Slough)

Note census (H 8) (Township)

Names underlined in red are  
approved. 11-8-49

L. Heck

Additional Names, 1:10,000 scale:

Yaupon Hammock Gut

Flounder Slough

\* These names do not appear on  
T-8740, 1:10,000 scale



FIELD EDIT REPORT  
Quadrangle T-8740  
(34 -45°/76 -22.5°/7.5°)  
Project Ph-5(45)  
Riley J. Sipe, Chief of Party

The field edit of this quadrangle was started in October 1948 by John D. Weiler, Photogrammetrist and completed in January 1949 by E. T. Jenkins, Engineering Aid. All work was performed in accordance with Field Edit Instructions, dated 24 August 1945, and supplement 1, dated 4 February 1946.

46. METHODS:

The features such as roads, structures, drainage and contours were checked either by examination from traveling along the roads and trails or by planetable methods.

All delineation and additions were made directly on the field edit sheet. A legend showing symbols and the color ink used by the field editor is shown on the field edit sheet.

47. ADEQUACY OF THE COMPILATION:

The compilation of this quadrangle is adequate except for changes and additions since the date of the original field inspection. The horizontal clearance of the bridge over Smyrna Creek differs with that shown on chart 420. The correct clearance is shown on the field edit sheet.

Attention is called to the new Davis Channel light just offshore from Davis, N.C. and the small sand island formed by dredging in the same area. This small island is approximately one foot above M.H.W. and with each strong wind the island diminishes in size and in a matter of a year or two it will no longer be seen above M.H.W.

48. VERTICAL ACCURACY TEST:

No vertical accuracy test was specified for this quadrangle.

4. HORIZONTAL CONTROL:

Forms 526 have been submitted to reconcile any questions on horizontal control.

18. GEOGRAPHIC NAMES:

A considerable number of new names were added to the field edit sheet and the reference shown on the sheet. A considerable amount of name discrepancies were found and a thorough check was made before the changes were made on the field edit sheet. There are three or four reference shown on the field edit sheet for each name change.

The map manuscript was reviewed by Mr. Calvin Mason, local fisherman and a resident of Davis, N.C. for fifty years who is familiar with the

reading of maps and charts from previous employment on the field party of a Coast and Geodetic Survey ship. He was of invaluable assistance in checking the map manuscript and found no errors in the corrected field edit sheet.

Submitted:  
24 January 1949

*E. T. Jenkins*  
E. T. Jenkins  
Engineering Aid  
*Wm*

Approved:  
24 January 1949  
*Riley J. Sips*  
Riley J. Sips  
Chief of Party



Review Report T-8740  
Topographic Map  
November 18, 1949

62. Comparison with Registered Topographic Surveys:

1017	1866	1:20,000
1020	1866	1:20,000
1306	1873	1:20,000
8044	1942-1945	1:20,000

The above topographic surveys are superseded for the purpose of nautical charting by this map.

63. Comparison with Maps of other Agencies:

None

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

420 1947

66. Adequacy of Results and Future Surveys:

This map complies with the project instructions and Bureau Policy. There are no inadequacies. The map complies with the National Standards of Accuracy.

67. Boundaries:

The following township boundaries were added to the map manuscript: Symrna, Hunting Quarter and Portsmouth.

Reviewed by:

B. Thomas Hynson  
B. Thomas Hynson  
11/18/49

Approved by:

S. V. Griffith  
Chief, Review Section F. H. M.  
Division of Photogrammetry

H. P. Edmonson  
Chief, Nautical Chart Branch  
Division of Charts

O. S. Reading  
Chief, Div. of Photogrammetry

Chief, Div. of Coastal Surveys



## NAUTICAL CHARTS BRANCH

SURVEY NO. 8740

### 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.

# 8740

Diag. Cht. No. 1233

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey Shoreline N/2 &  
Field No. .... Office No. T-8740 S/2

#### LOCALITY

State North Carolina  
General locality Carteret County  
Locality Northeast of Morehead City

194 6-'49

#### CHIEF OF PARTY

R.J.Sipe, Chief of Party  
G.E.Morris, Tampa Photo. Office

#### LIBRARY & ARCHIVES

DATE .....

# 8740



9-30-69 Cht 419 I Beeler After verification; applied fully;  
revised shoreline

## DATA RECORD

T-8740

Quadrangle (II): Shoreline Survey

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

Field Office: Morehead City, 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 Div of Ph 49  
Report No. T- (VI) Office Files

Completed survey received in office: 7/27/48

Reported to Nautical Chart Section: 8/3/48

Reviewed: 11/22/49

Applied to chart No. 1233  
420Date: 11/17/48  
7/14/49

Redrafting Completed:

Registered: 12/27/49

Published: Not to be published

Compilation Scale: 1:10,000

Published Scale: Not to be published

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

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

Reference Station (III): Charley, 1933  $\frac{S}{2}$ Lat.:  $34^{\circ} 47' 07.553''$  (232.7m)Lat.:  $34^{\circ} 49' 53.177''$  (1638.6m)Long.:  $76^{\circ} 27' 45.621''$  (1159.9m) Adjusted  
 $76^{\circ} 25' 12.873''$  (327.1m) Unadjusted

State Plane Coordinates (VI):

N.C. 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>
16187	7 April, 1946	1128	1:10,000	2.0 feet
16191	"	1131	"	2.0
16192	"	1132	"	2.0
16193	"	1132	"	2.1
16194	"	1133	"	2.2
16195	"	1134	"	2.3
16196	"	932	"	1.2
16114	"	931	"	1.2
16113	"	930	"	1.2
16112	"	930	"	1.2

Tide from (III): Reference: Hampton Roads

Sub. Station Beaufort

Mean Range: 2.5 feet

Spring Range: 3.0 feet

Camera: (Kind or source) U.S. C. & G.S. nine lens 8 1/4 inch focal length

D.G. Flippo

M.F. Kirk

Field Inspection by: M.A. Stewart

R.A. Horn

date: 18 Jan. '47

to

21 July '47

Field Edit by: *E.T. Jenkins*

date: *Jan 1949*

Date of Mean High-Water Line Location (III): 18 February 1947

27 March, 1947

Projection and Grids ruled by (III) T.L.J. Wash. Office date: 29 July, 1947

" " " checked by: " " date: 29 July, 1947

Control plotted by: I.I. Saperstein - W.W. Dawsey date: 4 Aug. 1947

Control checked by: M.M. Slavney date: 5 August, 1947

Radial Plot by: M.M. Slavney date: 24 November 1947

$\frac{N}{2}$

R. Dossett

December 1947

Detailed by:  $\frac{S}{2}$  R.R. Wagner

date: Dec. <sup>'41</sup> Jan. 1948

Reviewed in compilation office by: J.A. Giles

date: January 1948

Map Manuscript

Elevations on ~~Field Edit Sheet~~

checked by: J.A. Giles

date: January, 1948

STATISTICS (III)

Land Area (Sq. Statute Miles): 11.6

Shoreline (More than 200 meters to opposite shore): 42.5 Statute miles

Shoreline (Less than 200 meters to opposite shore): 10 Statute miles

Number of Recoverable Topographic Stations established: 26

Number of Temporary Hydrographic Stations located by radial  
plot: 9

Leveling (to control contours) - miles: 5

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  
SHORELINE MANUSCRIPT T-8740

26 AND 27. CONTROL AND RADIAL PLOT:

A special report will be submitted to the Washington Office by Milton M. Slavney, Photogrammetric Engineer.

No Recovery Note (Form 526) was submitted by the field inspector for triangulation station Davis, 1915. The station symbol is on the manuscript and a request for a Recovery Note will be made of the field editor when the 1:20,000 scale manuscript is edited.

28. DELINEATION:

The nine lens photographs used for this manuscript were of poor scale, which made it necessary to cut in a large number of detail points.

The area called Core Banks had only one flight of photographs. Along these banks all detail points were determined by two cuts but it is believed that the delineation falls within the limits of prescribed accuracy.

Since no projection was furnished for the south half of T-8741 the small amount of detail falling in that area was added to the south half of this manuscript.

29. SUPPLEMENTAL DATA:

None was used.

30 MEAN HIGH-WATER LINE:

Along the Core Sound side of Core Banks there were two sloughs for which the approximate mean high-water line was delineated. This should be checked at the time of field edit to see if its position is correct. *K.*

The high-water line was indicated by the field inspector throughout the remainder of the area at enough points to insure its delineation with reasonable accuracy

31. LOW-WATER AND SHOAL LINES:

The low-water line was delineated as shown on the field photographs.

Shoal lines were shown where they could be seen clearly on the photographs.

32. DETAIL OFFSHORE FROM THE HIGH-WATER LINE:

A wreck was recovered by the field inspector in the Atlantic Ocean off shore from Core Banks, at approximate Latitude  $34^{\circ} 47' 8$  and Longitude  $76^{\circ} 22' 4$ . It has been delineated according to instructions.

33. WHARVES AND SHORELINE STRUCTURES:

All piers were delineated as shown on the photographs.

34. LANDMARKS AND AIDS TO NAVIGATION:

Only one height was given with each landmark.

All non-floating aids to navigation reported by the field inspector, have been shown on the manuscript and their geographic positions duly recorded on the proper forms.

Triangulation station "Davis Shore, N.E. Ch. Spire, 1933" was destroyed when the church was torn down and moved to a new location. The spire of the new church has been located by triangulation of less than third order accuracy and is shown on the map manuscript as "Davis Church Spire, 1947". It will be requested of the field editor that he report on the new spire's suitability as a landmark since the field inspector deleted what he believed to be it on one section of nautical chart and checked it on another. *listed on attached form 567 "Landmarks for Charts"*

35. HYDROGRAPHIC CONTROL:

Eleven photo-hydro stations were established by the field inspector and cut in on this shoreline manuscript.



36. LANDING FIELDS AND AERONAUTICAL AIDS:

There were no Landing Fields or Aeronautical Aids on this manuscript.

37. GEOGRAPHIC NAMES:

All geographic names submitted by the Washington Office are shown on the manuscript as recorded on the name sheet. Attention is called to the name "Yeopon Hammock Gut" the spelling of the first word of which is believed to be in error. The correct spelling appears to be "Yeaupon". *See attached list of approved names - "Yeaupon" is correct.*

38. POLITICAL BOUNDARIES:

None. See item 17 of Field Inspection Report.

39. ROADS CLASSIFICATION:

The road classifications were taken from the 1:20,000 scale field photographs. They were classified in accordance with photogrammetry instructions No. 10 dated 14 April 1947. U.S. Highway No. 70 is classified as Road 4 by the field inspector in the area covered by this manuscript and as Road 5 on the adjoining (T-8739) manuscript. Correct classification will be requested of the field editor.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

There were no topographic quadrangle maps available for comparison.

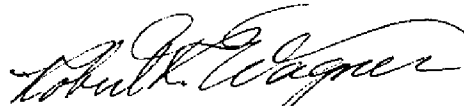
45. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with nautical chart No. 421 (1:40,000 scale) bearing a print date 26 October 1946. The shoreline along Core Sound on Core Banks is in very <sup>good</sup> agreement. The delineation of the shoreline on the chart seems to be extensively generalized. Also, in the vicinity of The Spit, the shoreline has undergone a change. Some piers have been built at approximate Latitude 34° 47.4' Longitude 76° 27.6'. Comparison was also made with chart 420 (1:40,000 scale) bearing a print date 7 September 1946. This chart seems to be in good agreement. The only difference noted was the existence of a few small islands in Great Island Bay which do not appear on the nautical chart. Clearance was noted on chart 420 for bridges over Smyrna and Oyster Creeks, but the field inspector failed to verify them. Attention is called to the following changes in geographic names:

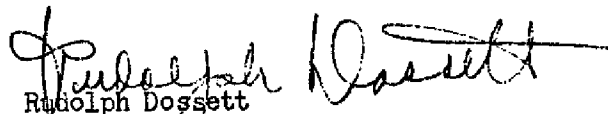
- (1) Styran Bay changed to Styron Bay.
- (2) Huff Creek changed to Fulchers Creek.

The shoreline manuscript should supersede the present charted information.

Respectfully submitted,

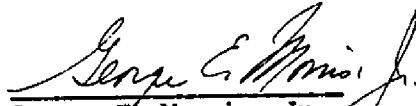


Robert R. Wagner,  
Photogrammetric Aid



Rudolph Dossett  
Cartographer, (Photo)

Approved and Forwarded:



George E. Morris, Jr.  
Chief of Party.



Review Report T-8740  
Shoreline Map  
November 22, 1949

62. Comparison with Registered Topographic Surveys:

1017	1866	1:20,000
1020	1866	1:20,000
1306	1873	1:20,000
8044	1942-1945	1:20,000

The above topographic surveys are superseded for the purpose of nautical charting by this map.

63. Comparison with Maps of other Agencies:

None

64. Comparison with Contemporary Hydrographic Surveys:

None

65. Comparison with Nautical Charts:

420	1947
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66. Adequacy of Results and Future Surveys:

This map complies with the project instructions and Bureau Policy. There are no inadequacies. The map complies with the National Standards of Accuracy.

67. Hydrographic Control.--The following photo-hydro stations have not been listed elsewhere in the descriptive report:

4002	-	S. Gable of boat house
4003	-	N. Gable of boat house
4004	-	NE corner of pier
4005	-	NW Gable of Stacy School building
4006	-	NW corner of "L" shaped pier
4007	-	Core Sound Light No. 29
4008	-	" " " No. 31
4009	-	" " " No. 34
4010	-	" " " No. 35
4011	-	" " " No. 28

Reviewed by:

B. Thomas Hynson  
B. Thomas Hynson  
11/22/49

Approved by:

S. V. Griffith  
Chief, Review Section L.H.M.  
Division of Photogrammetry

H. C. Munster  
Chief, Nautical Chart Branch  
Division of Charts

O. S. Reading  
Chief, Div. of Photogrammetry

K. G. Quilty  
Acting Chief, Div. of Coastal Surveys