

# 8715

Diag'd. On Diag. Ch. No. 1232

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-5(45) Office No. T-8715

### LOCALITY

State North Carolina

General locality Ocracoke Island

Locality Northeast of Ocracoke

1946-'48

CHIEF OF PARTY

R. J. Sipe

LIBRARY & ARCHIVES

DATE \_\_\_\_\_

B-1670-1 (1)

8715  
2128  
Sipe

## DATA RECORD

T- 8715

Quadrangle (II):

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

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

OFFICE FILES  
Copy filed in ~~Descriptive~~  
~~Report No. T-~~ (VI)  
OF THE DIV. OF PHOTOGRAMMETRY

Completed survey received in office: 8/25/48

Reported to Nautical Chart Section: 9/2/48

Reviewed: 10/29/48

Applied to chart No.

Date:

Redrafting Completed:

Prelim.  
Registered: 11/17/48

Published:

Final.  
Compilation Scale: 1:10,000

Published Scale: 1:24,000

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

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

Reference Station (III): HILL, 1935

Lat.: 35° 08' 03.188" (98.2m) Long.: 75° 54' 22.316" (565.0m) Adjusted  
~~Unadjusted~~

State Plane Coordinates (VI):

X = 2,924,827.59 ft.

Y = 518,174.70 ft.

Military Grid Zone (VI)



PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
16094	7 April 1946	0909	1:10,000	0.0 above MLW
16095	"	0909	1:10,000	0.0 " "

Tide from (III): Ocracoke Inlet  
 Reference station Hampton Roads  
 Mean Range: 1.9 Spring Range: 2.3

Camera: (Kind or source) U.S. C. & G.S. 9-lens, 8.25" focal length

Field Inspection by: I. Y. Fitzgerald  
 M.A. Stewart date: 3-14/Feb. 1947

Field Edit by: J. K. Wilson date: June 10, 1948

Date of Mean High-Water Line Location (III): 3-14 Feb. 1947

Projection and Grids ruled by (III) T.L. J. Washington date: 17 April 1947  
 Office

" " " checked by: T. L. J. Washington date: 17 April 1947  
 Office

Control plotted by: W.H. Shearouse date: 23 April 1947  
 R.J. Pate 6 May 1947

Control checked by: W.W. Dawsey date: 29 April 1947  
 M.M. Slavney 9 May 1947

Radial Plot by: M.M. Slavney date: 1 Aug. 1947

Detailed by: W.H. Shearouse date: 1-9 Aug. 1947

Reviewed in compilation office by: J.A. Giles date: Aug. 1947

Map Manuscript  
 Elevations on Field Edit Sheet  
 checked by: J.A. Giles date: August 1947

STATISTICS (III)

Land Area (Sq. Statute Miles): 1.8

Shoreline (More than 200 meters to opposite shore): 8.3 statute miles

Shoreline (Less than 200 meters to opposite shore): 4.4 statute miles

Number of Recoverable Topographic Stations established: 1

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: None

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:



MAP T. 8715

PROJECT NO. PH 5 (45)

SCALE OF MAP 1:10,000 SCALE FACTOR.....

SCALE FACTOR

[illegible]

1 FT. = 3048006 METER  
COMPUTED BY: W. H. Shearouse

DATE 20 March, 1947

CHECKED BY: M. M. Slavney

DATE 23 April, 1947

**M-2388-12**

Statement to Accompany Descriptive  
Report T-8715

1. T-8715 is composed of one topographic map manuscript, scale 1:10,000. The north half of the area is water and no manuscript was prepared.
2. The several mapping operations were:
  - (a) 9-lens aerial photography and laboratory processing, 1:10,000 scale.
  - (b) The field survey included identification of shore<sup>line</sup>, identification of horizontal and vertical control, plane-table contouring, clarification of photographic details, geographic names and boundary investigation.
  - (c) Compilation by graphic methods.
  - (d) Preliminary office inspection.
  - (e) Field Edit.
  - (f) Final review of the map manuscript to insure completeness and conformance with specifications, and to include corrections in accordance with the field edit survey.
  - (g) Processing  
Composite 1:20,000 scale blue line reductions are being prepared for smooth drafting. There will not be a 1:20,000 scale manuscript.
3. T-8715 and the adjoining quadrangles will be published and distributed by the Geological Survey, in accordance with an agreement of March 25, 1947.
4. Data pertaining to T-8715 will be filed and may be obtained as follows:
  - (a) Filed in the Division of Photogrammetry
    - (1) T-8715, scale 1:10,000, map manuscript, field edit and final review corrections applied, and field edit sheet.
  - (b) Filed in Coast and Geodetic Survey Archives.
    - (1) Descriptive Report
    - (2) 1:10,000 scale, cloth mounted photographic print of map manuscript. (Advance print)
    - (3) ~~A cloth-backed lithographic 1:10,000 manuscript scale, when above print is to be permanently registered and when T-8715 is published, a cloth-backed copy of the published map will also be registered.~~

October 29, 1948

B. Thomas Hynson  
B. Thomas Hynson



THE FIELD INSPECTION REPORT  
FOR QUADRANGLE T-8715 AND T-8716  
WILL BE INCLUDED WITH THE DES-  
SCRIPTIVE REPORT FOR QUADRANGLE  
T-8716



COMPILATION REPORT  
TO ACCOMPANY  
QUADRANGLE T-8715

26 AND 27. CONTROL AND RADIAL PLOT:

This is the subject of a special report submitted to the Washington Office by Milton M. Slavney 5 August 1947.

*Filed in the  
Div of Photg  
files.*

28. DELINEATION:

Photographs 16093, 16094, 16095 and 16209 were used for delineation. These photographs are of good scale and provided good coverage of the area.

Field inspection was satisfactory with enough notes for comparison in unclassified areas.

No unusual difficulties were encountered in interpretation.

Pass points established by the main radial plot were sufficient for delineating the area and no detail points were added.

29. SUPPLEMENTAL DATA:

None used.

30. MEAN HIGH WATER LINE:

The mean high water line on the ocean side was marked by the field inspector at enough places to complete its delineation with accuracy.

The limits of vegetation have been delineated on the Pamlico Sound side. In NOTES TO THE COMPILER submitted by the field inspector, it is stated that this line is normally the high water line. See also NOTES TO THE COMPILER for quadrangles T-8711 - T-8713. \*

31. LOW WATER AND SHOAL LINES:

The low water line has been delineated and labeled approximate. This line was not indicated by the field inspector.

The shoal areas in Pamlico Sound have been delineated with a dashed line showing their approximate limits.

32. DETAILS OFFSHORE FROM THE HIGH WATER LINE:

None

33. WHARVES AND SHORELINE STRUCTURES:

None



34. LANDMARKS AND AIDS TO NAVIGATION:

None were recovered to be charted.

The landmark charted as HILL at approximate latitude  $35^{\circ} 08.7'$ , longitude  $75^{\circ} 52.8'$ , has been recommended for deletion with the note "confusing with other sand dunes nearby." See copy of Form 567 attached.

35. HYDROGRAPHIC CONTROL:

None required.

Rec. Topo. Station: Hand, 1947 Div. of Photogrammetry  
General Files

36. LANDING FIELDS AND AERONAUTICAL AIDS:

None. However, reference is hereby made to item 13 of the Field Inspection report for further information on this subject.

37. BOUNDARIES:

No political boundary data have been received from the field.

38. CONTOURS:

Contours were transferred directly from the field inspection photographs to the map manuscript. The areas contoured are sand dunes and rise to a maximum height of 27 feet.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

There are no topographic quadrangles available in this office for comparison.

45. COMPARISON WITH NAUTICAL CHARTS:

Visual comparison was made with nautical chart No. 1232 (scale 1:80,000), dated 23 February 1946. There are no changes worthy of note.

It is suggested that a note be made on the nautical chart indicating the numerous sand dunes in the area. These rise to maximum elevation of 27 feet and appear to be stable, in the main, as they are mostly "inside" or back from the beach.

See item 34 for discussion of the charted landmark HILL.

Respectfully submitted,

*William H. Shearouse*

William H. Shearouse,  
Cartographer (Photogrammetric)

Approved and forwarded:

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



**TO BE DELETED**

STRIKE OUT ONE

# NON-COATING CRYSTAL LANDMARKS FOR CHARTS

Morehead City, N. C. 17 February, 1947.

I recommend that the following objects which have ~~(been inspected)~~ been inspected from seaward to determine their value as landmarks, be ~~removed~~ *06 Fitzgerald*

The positions given have been checked after listing by ~~L. W. Fitzgerald~~ <sup>W. H. Fitzgerald</sup>

Attest: *[Signature]*

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 individual field survey sheets. Information under each column heading should be given.

FIELD EDIT REPORT  
Quadrangle T-8715  
37° 07.5' - 75° 52.5' / 7.5  
Project Ph-5(45)  
Riley J. Sipe, Chief of Party

The field edit of this quadrangle was completed during June, 1948.

46. METHODS

This quadrangle was inspected by truck. Reference to the letter Chief, Division of Photogrammetry, (Field Edit of the Barrier Beaches) dated 18 May 1948, to Lieut. Comdr. Riley J. Sipe. *Filed in the Div of Photg office files*

47. ADEQUACY OF THE COMPILATION

The compilation was found to be adequate and complete. The road running along Ocracoke Island has been classified according to Photogrammetry Instructions No. 10, dated 14 April 1947.

48. ACCURACY TESTS

There were no accuracy tests specified for this quadrangle. See reference letter mentioned in paragraph 46.

18. GEOGRAPHIC NAMES

The geographic names as recommended by Mr. A. J. Wraight were verified in the field.

The map was examined for possible errors by Mr. Ben Fulcher of Ocracoke. Mr. Fulcher has been a resident of this vicinity for over fifty years. He could find no errors.

Submitted:  
10 June 1948

*Joseph K. Wilson*  
Joseph K. Wilson  
Cartographer

Approved:  
10 June 1948  
*Riley J. Sipe*  
Riley J. Sipe  
Chief of Party

## GEOGRAPHIC NAMES

Survey No. T-8715

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	
Knoll Woods									1
The Knoll									2
Knoll Cedars									3
Knoll House Creek									4
Try Yard Creek									5
Dicks Camp									6
Parkers Hill									7
Parkers Creek									8
Little Swash Opening									9
Quokes Point									10
Quokes Point Opening									11
Cass Williams Camp									12
Molasses Creek									13
Hammock Creek									14
Hammock Oaks									15
Old Hammock Creek									16
Ocracoke Island									17
Atlantic Ocean*									18
North Carolina* (for title)									19
Pamlico Sound*									20
Howard Reef									21
Clark Reef									22
Six Mile Hammock									23
Six Mile Hammock Channel									24
Off'n Devil Shoal									25
Island Creek									26
									27



# GEOGRAPHIC NAMES

Survey No.

Name on Survey	A	B	C	D	E	F	G	H	K	
Sand Hole Creek										1
<u>First Hammock Hills</u>										2
										3
										4
										5
										6
										7
										8
										9
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										27

\* - Decis. of BGN

Underlined names approved.

10-29-48.

a-j.w.

DIVISION OF PHOTOGRAMMETRY  
Review Report of  
Topographic Map Manuscript T-8715

Subject numbers not used in this report have been adequately covered in other parts of the Descriptive Report.

26 Control

Only one National Park Service third order bench mark was identified and this has been shown with the appropriate BM symbol.

28 Detailing

The original delineation was adequate except for minor corrections and changes made by the reviewer.

The woodland classification was changed to agree with Photogrammetry Instructions No. 21.

30 Mean High Water Line

The mean high water line has been delineated as of the date of photography and supplemented by the field inspection. The action of wind, tide, current, and shifting sands cause frequent changes in the shoreline and it is subject to continual change.

37 Political Boundaries

Boundaries were investigated by the field inspection party and the subject is adequately covered by a Special Report on Boundaries, Ph-5, filed in the general files of the Division of Photogrammetry.

The Cape Hatteras National Seashore Recreation Area mentioned in the Special Boundary Report is not applicable to this map. The project is in the planning stage, making the final boundaries and date of materialization very questionable.

39 Geographic Names

Geographic Names were investigated by the field inspection party and have been approved by the Geographic Names Section of the Division of Charts. Attached, following the review report, is a list of all geographic names for T-8715.

44 Comparison with Existing Topographic Quadrangles

Comparison was made with the following and all common topographic features are superseded by T-8715:

792	1:20,000	1860
3662	1:40,000	1916

There are no contemporary hydrographic surveys.

45 Comparison with Nautical Charts

See sub heading 45 in the compilation report.

47 Adequacy of the Compilation

An examination of map manuscript T-8715 reveals it to be complete in all details as a topographic quadrangle and as a base map for common area nautical charts and hydrographic surveys.

48 Accuracy Tests

Horizontal

No horizontal accuracy test was made. The combination of adequate 9-lens photographic coverage, 9-lens radial plot methods and the adequate horizontal control insures a horizontal accuracy equal to or better than the National Map Accuracy Standards.

Due to the unstable shoreline and shifting dunes, the accuracy applies to the delineation of details as of the date of photography supplemented by field inspection and field edit surveys.

Vertical

No vertical accuracy test was made, The unstable characteristics of the dunes render any test useless.

Accuracy Statement

The published map will carry the following statement:  
"This map complies with National Standards of Map Accuracy", supplemented by appropriate statements on unstable features.

Reviewed by:

B. Thomas Hynson  
B. Thomas Hynson, Oct. 29, 1948

Approved by:

L. V. Griffith  
Chief, Review Section L.H.M.

M. E. Munster  
Chief, Nautical Chart Branch  
Division of Charts

K. T. Adams  
Chief, Division of Photogrammetry

W. M. Scaife  
Chief, Division of Coastal Surveys



T-8715

Record of Work Subsequent to the Manuscript Review,  
that is, Smooth Drafting, Checking, and Printing

Smooth Drafting: 11 January 1949

Checking: 12-13 January 1949

Manuscript forwarded to the U. S. Geological  
Survey for smooth drafting and publication.

28 February 1949

Color proof furnished by the Geological Survey and  
examined by \_\_\_\_\_

Name

Date

Published by the Geological Survey.

## NAUTICAL CHARTS BRANCH

SURVEY NO. 8715

### 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.