### 8728N



Form 504
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE
·
DESCRIPTIVE REPORT
Type of Survey Topographic
Field No. <b>Ph-5(45)-A</b> Office No. <b>T-8728</b>
LOCALITY
State North Carolina
General locality Ocracoke Island
Locality Ocracoke & Vicinity
u
194 6-48
CHIEF OF PARTY
R. J. Sipe
LIBRARY & ARCHIVES
DATE

### DATA RECORD

T- 8728

Quadrangle (II):

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

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

Compilation Office: Tampa, Fla. Chief of Party: George E. Morris, Jr. Lieut. Comdr.

Instructions dated (II III): Undated Copy filed in Division of Photogrammetry
Report No. T (VI) Office Files

Completed survey received in office: 7/27/48

Reported to Nautical Chart Section: 8/2/48

Reviewed: 111448 Applied to chart No. Date:

Redrafting Completed:

Registered: /46/48 Published:

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):Ocracoke, 1933

Lat.: 35° 07° 02.460" (75.8m) Long.: 75° 58° 52.982" (1341.6m) Adjusted

State Plane Coordinates (VI): Noue available

= Y =

Military Grid Zone (VI)

### PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
16095	7 April 1946	09:16	1:10,000	0.5' Above MLW
16096	11	09:16	H .	11 11
16097	ti .	09:17	n .	11 11
16098	11	09:18	n	ii ii
16209	ii.	11:55	. !	1.91 !!

Tide from (III): Ocracoke Inlet (Ref. Station Hampton Roads)

Mean Range: 1.9

Spring Range: 2.3

Camera: (Kind or source) U.S. C. & G.S. 9-Lens 81 focal length

I.Y. Fitzgerald, Photo. Aid

27 January -

Field Inspection by: M.A. Stewart, Engr. Aid S.J. Hathorn, Photogrammetrist

date: 13 February 1947

Field Edit by: J. K. Wilson

date: 10 June 1948

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

Projection and Grids ruled by (III) T.L.J. Wash. Office date: 25 Sept. 1947

" checked by: date: 25 Sept. 1947

Control plotted by: I.I. Saperstein date: 6 Oct. 1947

Control checked by: R.R. Wagner date: 6 Oct. 1947

Radial Plot by: M.M. Slavney date: 3 Nov. 1947

Detailed by: R.A. Reece date: 6-17 Nov. 1947

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

Elevations on RigidaltixSheet checked by: J.A. Giles

date: Nov. 1947

### STATISTICS (III)

Land Area (Sq. Statute Miles): 5

Shoreline (More than 200 meters to opposite shore): 15 Statute mile

Shoreline (Less than 200 meters to opposite shore): 2

2 11 1

Number of Recoverable Topographic Stations established: 3

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:

STATION   SOURCE OF   LATITUDE OR P.	COORDINATE	DISTANCE FROM GRID IN FEET.  OR PROJECTION LINE IN METERS FORWARD (BACK)  (BACK)	DATUM FR CORRECTION 1	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK) 75.8 (1773.2) 1341.6 (1773.2) 975.6 (873.4) 975.6 (1239.8) 1782.6 (66.4) 444.8 (1074.5) 872.4 (976.6) 840.5 (679.0)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
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	G.51	G.Pos. not available in		*	
	Ter	Tampa Office.			
COMPUTED BY. W. H. Shearouse DATE 20 March	h 1947	CHECKED BY. M.M. SLAVNEY	ivney	DATE 7 JULY, 1947	. 1947
		4			

### Statement to Accompany Descriptive Report

- 1. T-8728 is composed of one topographic map manuscript, scale 1:10,000. The south half of the area is water and no manuscript was prepared.
- 2. The several marring operations were:
  - (a) 9-lens aerial photography and laboratory processing, 1:10,000 scale.
  - (b) The field survey included identification of shoreline, identification of horizontal and vertical control, planetable 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-8728 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-8728 will be filed and may be obtained as follows:
  - (a) Filed in the Division of Photogrammetry
     (l) T-8728, 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) The above print is to be <u>permanently</u> registered and when T-8728 is published, a cloth backed copy of the published map will also be registered:

Movember 19, 1948

B. Thomas Hynson Cartographer (Photogrammetrist)

A cloth-backed lithographic print will replace the doth-backed photographic print.

### FIELD INSPECTION REPORT T-8728 (35° 00'.0/75° 52'.5/7'.5) Project Ph-5(45) Sub-Project A

Riley J. Sipe, Chief of Party

All phases of field work was completed in accordance with the Director's Instructions, Project Ph-5(45), Field, not dated; and Instructions - Project Ph-5(45) - Field, Supplementl, dated 11 December, 1946, except for deviations herein noted. Filed in Div. of Photogrammetry Office Files.

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

NAME AND TITLE	FIELD WORK	1947 DATES
I. Y. Fitzgerald Photo Aid	Shoreline Inspection Contours	10 Feb - 13 Feb. 24 Feb - 24 Feb.
S. J. Hathorn Photogrammetrist	Horizontal Control Recovery	6 Feb - 14 Feb.
M. A. Stewart Engr. Aid	Contours	17 Feb - 18 Feb.

به المراجع

### 1. Description of the Area:

The land area of this quadrangle is comprised of the southwest end of Ocracoke Island. This Island lies between Hatteras Inlet at the northeast end of the island and Ocracoke Inlet at the southeast end of the island; and is a part of the North Carolina Outer Banks.

Many sand dunes appear in the eastern section of the quadrangle. The remainder of the island is a sand flat except for the village of Ocracoke. The land on which the village is situated is from two to eight feet in elevation.

The sand flat is covered by water when moderate or stronger winds are blowing from the northwest or west. There are some scattered dunes in the sand flat.

### 2. Completeness of Field Inspection:

Field inspection is felt to be complete and adequate.

### 3. Interpretation of the Photographs:

See combined report for quadrangles T-8715 and T-8716.

### 4. Horizontal Control:

See combined report for quadrangles T-8715 and T-8716.

### 5. Vertical Control:

National Park Service bench marks were used in addition to C. & G. S. Tidal bench marks for control of contours.

As existing control was sufficient no fly levels were run.

### 6. Contours and Drainage:

Contouring was completed directly on 9-lens photographs, 1/10,000 scale. Plane table methods were used.

There is no definite drainage pattern of any kind.

### 7. Mean High Water Line:

The mean high water line was located by measurements from identifiable points of detail except around Ocrocoke Inlet where it was located by plane table.

The mean high water line along the Pamlico Sound shore is very indefinite. No identifiable line could be discerned on the ground. This part of the mean high water line is shown as being indefinite.

Along the marsh areas of the island, all of which border Pamlico Sound, an apparent shoreline is found.

### 8. Mean Low Water Line:

The mean low water line was not delineated along the open beach.

The mean low water line will coincide with the HWL along the shore of Pamlico Sound except near Ocracoke Inlet.

### 9. Wharves and Shoreline Structures:

Adequately covered on photographs.

### 10. Detail Offshore from High Water Line:

Adequately covered on photographs.

### 11. Landmarks and Aids to Navigation:

All landmarks and aids to navigation reported on Form #567.

### 12. Hydrographic Control:

Additional horizontal control was established where needed to supplement existing control.

### 13. Landing Fields and Aeronautical Aids:

There are no landing fields in the area. However, the flat sand areas are used by light planes. These areas are subject to flooding

by strong northwest and west winds.

Ocracoke Light is a Surface Navigational Light shown on acrenautical charts.

### 14. Roads:

See combined report for quadrangles T-8715 and T-8716.

### 15. Bridges:

There are no bridges within the limits of this quadrangle.

### 16. Buildings:

Adequately covered on the photographs.

### 17. Boundaries:

See combined report for quadrangles T-8715 and T-8716.

### 18. Geographic Names:

See combined report for quadrangles T-8715 and T-8716.

Submitted:

24 February, 1947

I. Y. Fitzgerald OFV

Photo. Aid

Approved:

March 1947

Riley J. Sipe

Chief of Part

### 26 AND 27. CONTROL AND RADIAL PLOT:

These items will be the subject of a special report to be submitted by M.M. Slavney, Photogrammetric Engineer, at a future date.

Filed in Div. of Photogrammetry Office Files.

Attention is called to station U.S.E.D., 1913, which was recovered in the field and is described on Form No. 526; however, no geographic position is available in this office for plotting.

### 28. DELINEATION:

Photographs 16095, 16096, 16097, 16098 and 16209 were used for delineation. These photographs are of good scale and provide a good coverage of the area.

Field inspection was satisfactory, though scant in some sectors. No unusual difficulties were encountered in interpretation. Unclassified areas were compared with similar areas classified on adjoining quadrangles.

Pass points were sufficient for delineating much of the area. Detail points were used most extensively in the village of Ocracoke and vicinity.

All roads are compiled in accordance with amendment to Photogrammetry instructions No. 10 dated October 24, 1947. All'roads are now class 7, whereas in the field inspection report they were designated class 4 in accordance with "General Instructions - Classification and Compilation of Roads" dated 30 June 1945. In Notes to Compiler, it was stated that the road traversing the island was shown by a broken line on the field prints. No such line was drawn by the field inspector on field prints 16096 or 16097. The road shown on the map manuscript is that interpreted by the compiler and has been noted to the Field Editor for investigation. Refer to Field Edit Report.

### 29. SUPPLEMENTAL DATA:

None used.

### 30. MEAN HIGH-WATER LINE:

The mean high-water line is shown as indicated by the Field Inspector.

### 31. LOW-WATER AND SHOAL LINES:

The low-water line has been delineated and labeled "approximate", since the Field Inspector did not indicate it.

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

### 32. DETAILS OFFSHORE FROM HIGH-WATER LINE:

Off shore details were adequately described on field photographs and have been delineated accordingly.

### 33. WHARVES AND SHORELINE STRUCTURES:

All docks, piers and other structures along the shoreline have been delineated according to field inspection notes.

### 34. LANDMARKS AND AIDS TO NAVIGATION: -

Landmarks and aids to navigation are being submitted on form 567 and made a part of this report. Form No. 567 has been requested of the field editor for Cockle Shoal Light.\ Refer to Field Edit Report

35. LANDING FIELDS AND AERONAUTICAL AIDS: (Rec. Toposta.) on all aids + landinks, plus Wade, 1940" which is marked by adisk.

None. Reference is made; however, to item No. 13 of the Field Inspector's report for further information.

### 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. No difficulties or unusual conditions were encountered.

### 39. GEOGRAPHIC NAMES:

Geographic names have been assigned as shown on copies of U.S. C. & G. S. Nautical Charts No. 419 and No. 1232 sent from the Washington Office with all the established names given. List of approved names attached to this Desc. Report.

### 44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

There are none available in this office for comparison.

### 45. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with nautical charts No. 1232 (scale: 1: 80,000) dated 23 February 1946, and number 419 (scale 1: 40,000) bearing a print date of 19 October 1946. There are no changes worthy of note.

Respectfully submitted,

Richard A. Reece

Engr. Draftsman

Approved and Forwarded:

George E Morris, Jr.

Chief of Party.

DEPARTMENT OF COMMERCE U. S. COAST AN EODETIC SURVEY U. S. COAST AN

# NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED TO BE CHARTED

STRIKE OUT ONE

Morehead City, N. C.

17 February, 1947

Chief of Party.

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

The positions given have been checked after listing by

Wagner Robert

CHARTS 1232 OFFSHORE CHART INSHORE CHART K H K наявоя снаят DATE OF LOCATION 1947 = . N.A.Rad.Plot 1927 T-8728 METHOD OF LOCATION AND SURVEY No. = = DATUM = . D. P. METERS 166 253 391 LONGITUDE 58 59 59 POSITION 22 75 75 D. M. METERS 1711 10 727 LATITUDE 90 90 07 35 35 35 SIGNAL Steel, abandoned radar (75'high) Ocracoke Coast Guard Station (Elev.) Wood, (75' high) NORTH CAROLINA DESCRIPTION CUPOLA CHARTING TOWER TANK

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

1 1945

## DEPARTMENT OF COMMERCE

ODETIC SURVEY U. S. COAST AN

# NONFLOATING AIDSXORCECAMINATERIST FOR CHARTS

STRIKE OUT ONE TOXBEXDELYETEMSX TO BE CHARTED

Tampa, Florida

20 July

. 19 48 I recommend that the following objects which have (becoming) been inspected from seaward to determine their value as landmarks, be charted our fateted of charts indicated.

Gilmore Chief of Party. The positions given have been checked after listing by K.K. Reece, Engr. Draftsman
Tampa Photogrammetric Office

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STATE NORTH CAROLINA			д	POSITION			METHOD		THAP	ТЯАНЭ	
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Note:											
Positions of Aids have been replotted and checked .	otted a	nd che	cked .								
Each one is in a slightly different position from the	ert pos	ition	from the								
one cut in radially.											

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.

WOXBEXOHARPEDX Form 5g, April 1945

### OF COMMERCE ODETIC SURVEY U. S. COAST AND DEPARTMENT

# NONFLOATING YAIDS YOR LANDMARKS FOR CHARTS

STRIKE OUT ONE TO BE DELETED

17 February 19 47 I recommend that the following objects which have (barraxuat) been inspected from seaward to determine their value as landmarks, be Morehead City, N. C. charted on (deleted from) the charts indicated.

Chief of Party. 4 Threath GEV. The positions given have been checked after listing by

TRAI		AFFECTED	НВАЛ		1232,419	1231, 419	1232,418	-	7605				
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			NAME	same as	e asme as	charting 35-06.9	an amag	charting 35-07.4					
North Carolina	ST. 44 0 45)		DESCRIPTION	No description . Confusing with other houses near by	(Elev) Low horizontal. not visible same as	offshore.	Low and easily confused with	other hills					
STATE		CHARTING	NAME	HOUSE		TANK		HILL					

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-8728
35°00'.0 - 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

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The island of Ocracoke was inspected by truck, traversing all available roads. All features added to the compilations were plotted from topographic features or cut in by planetable. The area along the western portion of Ocracoke Island was inspected by boat. All aids to navigation were cut in by planetable on an aluminum mounted sheet.

Reference to the letter from Chief, Division of Photogrammetry, Filed in the (Field Edit of the Barrier Beaches) dated 18 May 1948 to Lieut. Office files

### 47. ADEQUACY OF THE COMPILATION

The compilation was found to be adequate. The field inspection was very scant in the vicinity of the village of Ocracoke. Numerous notes which would have been very beneficial to the compiler were omitted.

All aids to navigation were cut in by planetable methods. Teaches Hole Channel Light, Cockle Shoal Light and Silver Lake Entrance Light were verified by at least two planetable cuts on the aluminum mounted sheet.

Ocraccke Beacon, 1935 has been destroyed and replaced by Cockle Shoal Light which is located about 100 meters south of the old beacon position.

Big Foot Slough Light 5 which was located just northwest of this quadrangle has been destroyed.

A concrete road (9 feet wide) has been constructed from the U.S. Coast Guard Station to the eastern portion of Ocracoke.

The road along the Plains is only in its approximate position. The sand is constantly shifting and is also covered by water depending on the direction of the winds.

### 48. ACCURACY TESTS

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

### 18. GEOGRAPHIC NAMES

The names LITTLE OYSTER CREEK and OYSTER CREEK, which are located in the northeastern portion of the village of Ocracoke are no longer used. The area has filled in. It is recommended that the names LITTLE OYSTER CREEK and OYSTER CREEK be deleted.

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 is highly familiar with the area and was very helpful.

Submitted: 10 June 1948

Joseph K. Wilson Joseph K. Wilson Cartographer

Approved:

10 June 1948

Riley J. Sipe/ Chief of Party

Survey No. <b>1-8728</b>	,	Sir.	, girous	S. Mags	Ded side	, a Mag	Cuide	McHoll	, Light	
OCRACOKE ISLAND, N.C.  Name on Survey	S <sup>S</sup>	Ao O	C C	D D	E E	Or local Mode	Coulde of G	H ROOM H	NES LIGHTLY	$\angle$
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Ocracoke School										14
Methodist Church										15
Cuttin' Sage Lake										16
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Gep Point					<del>.</del>					18
Northern Pond										19
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Assembly of God Church										23
Braggs Wharf										24
Springers Point						·	•			25
Silver Lake Channel							~			26

Ethat Creas  Sacond Grass  Names underlined in red are approved. 11/19/48 b. Heck	
Old Slough  Pitst Grass  Second Grass  Names underlined in red are approved. 11/19/48 D. Heck	
Sancal Grass  Sancal Grass  Names underlined in red are approved. 11/19/48 D. Heak	1
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### DIVISION OF PHOTOGRAMETRY Review Report of Topographic Map Manuscript T-8728

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

### 26 <u>Control</u>

National Park Service third order bench marks are located at half rile intervals along the barrier beach, and are described as mile posts, MP 56.0, MP 56.5 etc. Only one recovered bench mark has been shown on the map manuscript by the appropriate BM symbol.

### 28 Detailing

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

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

The Big Foot Slough Channel, were deleted from the manuscript Decause they were not discernable on the photographs.

### 30 mean High Vater 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 shireline and it is subject to continual change.

### 34 Landwarks and Aids to Navigation

A form 524 was prepared in the Washington Office for Cockle Shoel Light since none was submitted with the map manuscript.

### 39 Geographic Names

Geographic hames were investigated by the field inspection narty 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-8728. A special Geographic names Report, Ph-5, is filed in the Geographic Fames Section of the Division of Charts.

### 44 Comparison with Existing Topographic Quadrangles

Comparison was made with the following and all topographic features in common areas are superseded by T-8728:

3761:20,00018526221:10,0001657-18667921:20,0001360-106627331:20,000130569241:10,0001342-1343

There are no contemporary hydrographic curveys.

### 15 Comperison with Neutical Charts

See sub heading 45 in the compilation isnort. T-8728 has not been applied to nautical charts as of the date of this review. 17 Adequee; ~2 The Compilation

to enemination of eap acouncyint T-8728 reveals it to be countrie in all details as a tonographic quadrangle and as a bese was for commor area nautical charts and hydrographic surveys.

### 48 Adrumacy Testin

Herizontal

to heritantal accuracy test was made. The combination of elequate 9-line photographic coverage, 9-lens radial plot methods and the sdejuste herizon's 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 delinestion 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 characteritetics of the dunes on the barrier beach render any test useless.

Accuracy Statement

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

Reviewed by:

Approved by:

Shief, Sautical Chart Branch,

Division of Charts/

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

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### NAUTICAL CHARTS BRANCH

### SURVEY NO. 8728

### Record of Application to Charts

CHART	CARTOGRAPHER	REMARKS
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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.