

8727
N43

Diag'd. on Diag. Ch. No. 1231 & 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-8727

LOCALITY

State North Carolina

General locality Pamlico Sound

Locality Portsmouth Island

1946-'48

CHIEF OF PARTY

R.J.Sipe

LIBRARY & ARCHIVES

DATE

8727

DATA RECORD

T- 8727

Quadrangle (II): T-8727

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

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

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

Instructions dated (II III): Undated

Office Files of the
 Copy filed in ~~Descriptive~~
~~Report No. T-~~ (VI)
 Division of Photogrammetry

Completed survey received in office: Feb. 26, 1948

Reported to Nautical Chart Section: March 3, 1948

Reviewed: Nov. 1948 Applied to chart No. Date:

Redrafting Completed:
Preliminary Dec. 7, 1948

Registered: Final 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): (S/2) Whale, 1933

Lat.: 35° 01' 16."629 (512.4m)	Long.: 76° 07' 05."418 (137.4m)	Adjusted
(N/2) Portsmouth Spire, 1933		Unadjusted
35° 04' 09.965" (307.1m)	Long: 76° 03' 41.996" (1064.1m)	

State Plane Coordinates (VI):

PORTSMOUTH SPIRE 1933

X = 2,879,075.24 Y = 493,196.20

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
16098	7 April, 1946	9:12	1:10,000	1.0 feet
16099	"	9:12	"	1.0 "
16210	"	12:08	"	1.5 "
16207	"	11:53	"	1.6 "
16100	"	9:20	"	1.1 "
16101	"	9:21	"	1.1 "
16102	"	9:22	"	1.1 "

Marine Corp Single Lens Photos, scale 1:10,000
 #1-T8727 to T8727-7-T8727 incl. (Filed in descriptive
 Report Envelope T8727 in the General Files of the
 Div. of Photogrammetry) Date of Photos =
 Ocracoke Inlet 1140 July 7, 1947

Tide from (III): Reference station: Hampton Roads

Mean Range: 1.9

Spring Range: 2.3

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

Field Inspection by: Wm. M. Reynolds

date: 16-24 June, 1947

Field Edit by: J. K. Wilson

date: June 1948

Date of Mean High-Water Line Location (III): June, 1947

Refer to item 30, of the final review report,

Projection and Grids ruled by (III) T.L.J. (Wash. O.) date: 26 Sept. '47

" " " checked by: " " date: "

Control plotted by: H.R. Wagner

date: 6 Oct. 1947

Control checked by: I.I. Saperstein

date: 6 Oct. 1947

Radial Plot by: M.M. Slavney

(S/2) 24 Nov. 1947
 date: (N/2) 3 Nov. 1947

Detailed by: (S/2) R.R. Wagner
 (N/2) R. Dossett

date: Jan-Feb. 1948

Reviewed in compilation office by: J.A. Giles

date: Feb. 1948

Elevations on ^{Map Manuscript} ~~Field Notes~~
 checked by: J.A. Giles

date: Feb. 1948

STATISTICS (III)

Land Area (Sq. Statute Miles): 5

Shoreline (More than 200 meters to opposite shore): 26 Statute miles

4 " "

Shoreline (Less than 200 meters to opposite shore):

Number of Recoverable Topographic Stations established: 5

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.

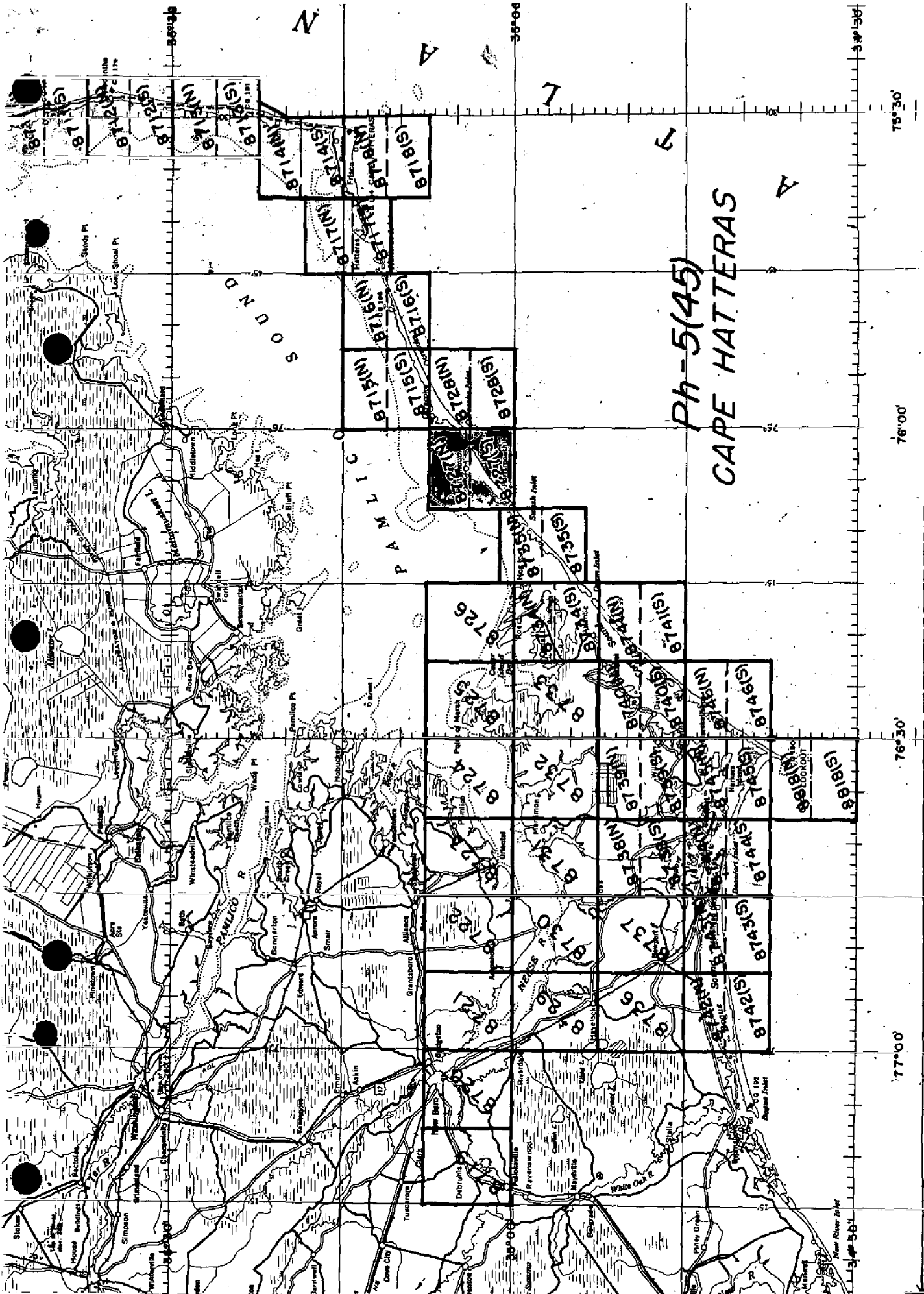
When entering names of personnel on this record give the
surname and initials (not initials only).

Remarks:

MAP T-8727 PROJECT NO. Ph-5(45) SCALE OF MAP 1: 10,000 SCALE FACTOR ---

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR χ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
NINE-FOOT SHOAL BEACON, 1935	G.Ps. N.A. 1927 P.360		35° 08' 30.213"			931.1 (917.9)	DESTROYED
** S.W. POINT L.H. 1932	218 Sp. Pub. P. 15	"	76 01 58.635			1484.3 (34.6)	see Planetable Sheet
BEACON IS. 2, 1909	G.Ps. P. 356	"	35 07 06.941			213.9 (1635.1)	
* PORTSMOUTH SPIRE 1933	G.Ps. P. 359	"	76 08 34.122			864.0 (655.3)	
EMOT, 1947	Field Comp.	"	35 05 58.693			1808.7 (40.3)	
OCRA COKE N E BASE 1870	G.Ps. P. 356	"	76 02 52.529			1330.4 (189.2)	
WHALE, 1933	Sp. Pub. P. 15	"	35 04 09.965			307.1 (1541.9)	
Shown on Maps a Topo Sta. 4 order	Field Comp.	"	76 03 41.996			1064.1 (456.2)	
FITT, 1947	Field Comp.	"	35 06 18.402			567.1 (1281.8)	DESTROYED
			76 04 24.697			625.5 (894.1)	see Field Edit Report
			35 04 01.505			46.4 (1802.6)	
			76 03 09.604			243.3 (1276.9)	
			35 01 16.629			512.4 (1336.5)	
			76 07 05.418			137.4 (1383.7)	
			35 02 26.981			831.4 (1017.5)	
			76 05 28.937			733.5 (787.4)	
* Listed as PORTLAND SPIRE, 1933. Name has been recommended to be changed. (Reference letter from Lt. Comdr. Ross A. Gilmore to the Director, dated 28 July 1948).							
** Outside limits of quadrangle.							

1 FT. = 3048006 METER
COMPUTED BY: W.H. Shearouse
CHECKED BY: M.M. Slavney
DATE 20 March, 1947
DATE 20 June, 1947.
M-2388-12



Ph-5(45)
CAPE HATTERAS

77°00'

76°30'

76°00'

75°30'

General Statement to Accompany Descriptive Report T-8727

1. T-8727 is one of 37 topographic quadrangles in project Ph-5 in the vicinity of Beaufort, North Carolina. T-8727 is at Ocracoke Inlet on the Barrier Beach, about half way between Cape Lookout and Cape Hatteras. Prior to this date, no topographic quadrangle of this area has ever been published by any agency.

2. Nine-lens aerial photographs at a scale of 1:10,000 were used. Field operations prior to compilation were done by the field party in charge of Riley J. Sipe, and included planetable contouring. The map was compiled at a scale of 1:10,000 at the Tampa Photogrammetric Office.

3. After compilation the map was field-edited. There is no field edit sheet. Field edit was done on the discrepancy prints, scale 1:10,000, and a metal-mounted planetable sheet (portion of T-8727-8), scale 1:20,000.

4. After the field edit corrections were applied to the 1:10,000 scale manuscripts, they were reduced to 1:20,000 for blue-line prints, which were smooth drafted.

5. T-8727, as well as the other quadrangles of this project, is being forwarded to the Geological Survey for publication at a scale of 1:24,000 and distribution in accordance with agreement dated March 25, 1947.

6. The data will be filed as follows:

(a) In the Bureau Archives -


(1) Descriptive Report.

(2) An advance photographic print at scale 1:10,000, in two parts; to be replaced at a later date by a cloth-mounted lithographic print, scale 1:10,000, in two parts.

(3) After publication, a cloth-mounted copy of the published map at scale 1:24,000 will also be registered.

(b) In the Division of Photogrammetry -

The original 1:10,000 scale map manuscript on transparent sheeting, in two parts, and discrepancy prints and planetable sheets used in field edit referred to in par. 3.


Harland R. Cravat

FIELD INSPECTION REPORT
T-8727 (35° 00' / 35° 07.5' / 76° 00' / 76° 07.5'
Project Ph-5 (45)
Sub-project A

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, and Supplement 1 to the above, dated 11 December 1946, except for deviations noted herein. Filed in Div. of Photogrammetry Office Files.

All phases of field work on this quadrangle was accomplished by William M. Reynolds, Engr. Aid, from 16 June to 24 June 1947, except as noted in paragraph 30 of the final review report.

1. Description of the Area

The land embraced by this quadrangle is a narrow barrier beach, sometime referred to as the outer banks, Located between Pamlico Sound and the Atlantic Ocean, and is the eastern-most land area along the North Carolina Coast. Almost the entire area is composed of sand dunes and salt-sand flats, which support scattered patches of grass. Pamlico Sound has deposited enough mud on the western side to support some marsh, varying from a narrow fringe to several hundred feet in width.

2. Completeness of Field Inspection

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

3. Interpretation of the Photographs

As the photographs are of a recent date no great difficulty was encountered in the interpretation of the photographs, except for Shoreline changes from a point near triangulation station, "WHALE", southward. Single lens photographs of the shoreline in this area were furnished by the U. S. Marine Air Station at Cherry Point and the shoreline along the Atlantic Ocean should be drafted from these.

Please Refer to item 30
of the Review Report.

4. Horizontal Control

In accordance with the instructions each photograph was fixed along the flight line by a specially located control station along a line through the photograph center approximately normal to the line of flight. Two of these points, FITZ, 1947 and FITT, 1947, were located by triangulation methods (three point fix with a check angle) and were marked as Topographic Stations.

5. Vertical Control

This work consisted of Bench Mark recovery only. Only four Coast & Geodetic Survey Bench Marks fall within the limits of this quadrangle. They are Tidal Bench Marks and are located on Portsmouth and Casey Islands. One of these recovered and three are considered destroyed.

6. Contours and Drainage

The contouring of the quadrangle was begun on 18 June 1947 and completed on 20 June 1947. The contour interval was 5 feet; and the work was done directly on nine lens photographs Nos. 16102, 16101, 16100 by plane table methods. The work was kept as near the center of the photograph as possible to minimize distortion and large scale changes.

All of the contours in this quadrangle are isolated around sand dunes; with the exception of a small portion of the beach in the South west corner along the beach. The sand dunes in this area generally parallel the inside limits of the marsh, with an occasional isolated dune out on the salt-sand flats. The dunes generally are in clusters and enough shots were taken on the highest of the dunes to draw in the contours in the field. Some of the 10 foot contours are exaggerated in size as the dunes are very pointed on the tops and a very narrow part would be shown above 10 feet.

7. Mean High Water Line

The shoreline on the Ocean side was driven and inspected by Jeep and where topographic features were distinguishable measurements were taken to the M.H.W.L.

The shoreline along Pamlico Sound, which is almost entirely grass (apparent Shoreline) was inspected by Jeep and by walking along the shoreline. Measurements taken from the topographic features prove that very little change in the shoreline has taken place since the time of the photography. There is no perceptible preedie tide in Pamlico Sound and inspection proved that the M.H.W.L. is correct as photographed, except at inlets and break-throughs from the Atlantic Ocean. Please refer to item #31 of the review report.

8. Mean Low Water Line

The M.L.W.L. could not be adequately inspected. At the time of the inspection high winds and high tides prevailed. Where possible the approximate M. L.W. L. was delineated on the photographs.

9. Wharves and Shoreline Structures

There are no Wharves or Shoreline Structures in this quadrangle.

10. Detail Offshore From the High Water Line

All detail visible from the Shoreline is discernible on the photographs and has 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.

~~Seventeen non-floating aids to navigation are found within the limits of this quadrangle. One was pricked direct and labeled on photograph 16100. The remaining aids were located by sextant fixes.~~

~~Location was unsatisfactory. The Field Edit Party located all Fixed Aids by plane table.~~

Rec Topo. Sta.:

524 cards filed in Division
of Photogrammetry General Files.

Flagpole, 1947

Fitt, 1947

Fitz, 1947

Hera, 1947

Sheep Island Sluc Bn, 1947

Cupola (former Coast Guard Station) 1948

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 approximately one mile intervals. Where natural objects were not available these stations were marked by standard Topographic stations.

13. Landing Fields and Aeronautical Aids

There are no landing fields or aeronautical aids in this area. It is possible for small craft to land on the salt-sand flats at extreme low tide.

14. Road Classification

There are no graded or improved roads in this quadrangle. A few trails exist in the village of Portsmouth at the northern end of the island and these are distinguishable on the photographs. Any driving done outside the village is done along the beach at low tide.

15. Bridges

No bridges exist in this quadrangle.

16. Buildings and Structures

The only buildings in the quadrangle are located in the village of Portsmouth. The population of this village is 17 and the occupation is chiefly fishing.

All the buildings are distinguishable on the photographs, and public buildings have been labeled.

17. Boundary Monuments and Lines

There are no boundary monuments or lines in this quadrangle. The entire area is in Carteret County and the village of Portsmouth is unincorporated. For further details, refer to Special Boundary Report, P.H.S., filed in General Files of the Div. of Photogrammetry.

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 Engr.

Geographic Names Report, filed in Geographic Names Section of the Division of Charts.

Approved:

Date 21 Aug 1947

Riley J. Sipe
Riley J. Sipe
Chief of Party

Submitted:

12 August 1947

William M. Reynolds
William M. Reynolds
Engr. Aid.

COMPILATION REPORT
TO ACCOMPANY
TOPOGRAPHIC QUADRANGLE T-8727

26 & 27. CONTROL & RADIAL PLOT:

These are the subject of a special report being submitted under separate enclosure by Milton M. Slavney, Photogrammetric Engineer.

Radial Plot Report filed in general files of the Div. of Photogrammetry.

28. DELINEATION:

This quadrangle has been delineated according to the latest instructions for this project.

The field inspection was adequate except for isolated spots subject to periodic storm changes. Particular attention is called to areas on Portsmouth Island at Ocracoke Inlet. This area has been delineated according to the compiler's interpretation and called to the attention of the field editor for a check.

The photographic coverage was insufficient for a thorough delineation of the northwestern portion of the quadrangle; therefore, the geographic positions of the shoal areas and channels are approximate.

The single lens photographs furnished by the U.S. Marine Air Station at Cherry Point were used since they are the latest photographs of this area. These photographs were used from Latitude 35° 03' 00" south.

29. SUPPLEMENTAL DATA:

None used.

30. MEAN HIGH-WATER LINE:

Much of the mean high-water line was delineated according to measured distances or short-dashed lines on the field prints shown by the field inspector.

The shoreline of Ocracoke Island was delineated according to plane-table traverse shown by the field inspector on field photograph 16098.

The mean high-water line along the Atlantic ocean side of Portsmouth Island was delineated as approximate. This was done because the same points could not be pricked on both flights of photographs. The shoreline was delineated by placing the shoreline from the nine-lens photographs on the map manuscript and adjusting the more recent single-lens photographs as near as possible to the shoreline of the nine-lens photographs. It is believed that since the shoreline changes so frequently the method used is the most practicable.

Please refer to item 30 of Review Report for other information.

31. LOW WATER AND SHOAL LINE:

The majority of the shoal areas have been delineated according to the compiler's photographic interpretation and are approximate only. They are shown by black dashed-lines and separating channels are labeled according to the Geographic Name Sheet furnished by the Washington Office.

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

Details off shore from the high-water line requiring further investigation are "Flounder Slue Rock" and "Turtle Rock". They are given geographic names on the name sheet sent from the Washington Office but are not visible on the photographs, nor were their positions indicated thereon by the field inspector. Field Edit reports Flounder Slue Rock and Turtle Rock non-existent as topographic features, although name should be retained for hydrographic feature.

33. WHARVES AND SHORELINE STRUCTURES:

All wharves, piers, or other shoreline structures indicated by the field inspector have been delineated.

34. LANDMARKS AND AIDS TO NAVIGATION:

Recommended landmarks are listed on form 567.

The discrepancies mentioned in the paragraphs below, were reconciled by the field Edit Party. Refer to field Edit Report and item #34 of Review Report
Attention is called to the Aids to Navigation for which Sextant Fixes were submitted by the field party. There is some doubt about the exact position of "Sheep Island Slue Beacon." This office received from the field party a card with the following statement:

"The 1943 position of Sheep Island Slue Beacon was determined by Sextant Fixes. The positions scaled from the hydrographic sheet is Latitude 35° 04' (966m), Longitude 76° 06' (505m). The position will suffice for orientation purposes in locating substitute points and for Sextant Fixes for the purpose of locating additional Aids to Navigation."

The card further states that the "Above is taken from letter of 8 July, 1947 from Acting Director, file No. 731-ld.

Accordingly this position was plotted on the manuscript as given above. There remains some doubt; however, about this Aid to Navigation. It is called Sheep Island Slue Bn, 1943 in the foregoing but is referred to as Light "10" in the Sextant Fixes submitted by the field party. It is shown on nautical chart 418 as Light "10". Inasmuch as this Light or Beacon is the key to all the fixes for the Aids to Navigation it was decided to bring the matter to the attention of the field editor before plotting them on the manuscript.

Further difficulty was encountered when an attempt was made to plot the Aids to Navigation through "Cross Rock Channel". The fixes used for these Aids were too weak for accurate plotting. Several trials were made and the same position was not obtained twice. It is recommended that the Aids to Navigation be re-located by the field editor.

This has been noted on the discrepancy overlay.

35. HYDROGRAPHIC CONTROL:

See field inspector's report, item 12.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

There are no landing fields or Aeronautical Aids in this quadrangle.

38. POLITICAL BOUNDARIES:

See paragraph No. 17 of the Field Inspection Report.

39. GEOGRAPHIC NAMES:

Geographic names as shown on the name sheet received from the Washington Office, have been applied to the map manuscript.

40. CONTOURS:

The position of the single contour shown on the ocean side of Portsmouth Island was determined by stereoscopic examination of the latest (single-lens) photographs. The contour on the nine-lens photograph, as drawn in the field, was adjusted accordingly.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

None available for comparison.

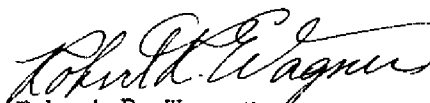
45. COMPARISON WITH NAUTICAL CHARTS:


Comparison was made with nautical chart 419, having a print date of 9 October, 1946 and a scale of 1:40,000. The Atlantic Ocean side of Portsmouth Island has undergone many changes. Changes in this area are very frequent.

The Pamlico Sound side of Portsmouth Island is in good agreement with the nautical chart except for two small islands located at approximate Latitude $35^{\circ} 02.2'$ and Longitude $76^{\circ} 05.8'$. Whalebone Island has divided into two parts along with The High Hills Island.

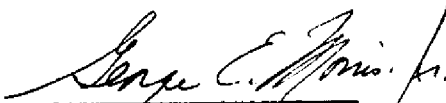
The topographic manuscript should supersede the present charted information.

Respectfully submitted,


Robert R. Wagner,
Photogrammetric Aid


Rudolph Dossett
Cartographer (Photo.)

Approved and Forwarded:


George E. Morris, Jr.
Chief of Party.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

TO BE DELETED

Morehead City, N.C.

27 June

1947

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

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

*Lance L. 702 (1948)**Riley J. Sipe*

Chief of Party.

STATE NORTH CAROLINA			POSITION					METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED			
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE		LONGITUDE									DATUM		
			°	'	°	'	D. P. METERS									
SHEEP	ISLAND SLUE LIGHT 10		35	04	984	✓	76	06	553	✓	1927	Planetable T-8727-S	June 1948	X		418-1231
SHEEP	ISLAND SLUE LIGHT 9		35	04	1061	✓	76	06	888	✓	"	"	"	X		419-1232
SHEEP	ISLAND SLUE DAY BEACON 7		35	04	1017	✓	76	05	595	✓	"	"	"			"
SHEEP	ISLAND SLUE LIGHT 4		35	04	1106	✓	76	04	618	✓	"	"	"	X		"
SHEEP	ISLAND SLUE LIGHT 3		35	04	1602	✓	76	03	1343	✓	"	"	"	X		"
SHEEP	ISLAND SLUE LIGHT 1		35	05	1653	✓	76	03	580	✓	"	"	"	X		"
	WALLACE CHANNEL LIGHT 21		35	07	35		76	06	1814	✓	"	"	"	X		"
	WALLACE CHANNEL LIGHT 16		35	06	1121	✓	76	05	1449	✓	"	"	"	X		"
	WALLACE CHANNEL LIGHT 12		35	06	467	✓	76	05	431	✓	"	"	"	X		"
	WALLACE CHANNEL LIGHT 10		35	05	1674	✓	76	04	1128	✓	"	"	"	X		"
	WALLACE CHANNEL DAY BEACON 8		35	05	1482	✓	76	04	374	✓	"	"	"	X		"
	WALLACE CHANNEL LIGHT 7		35	05	1028	✓	76	03	1037	✓	"	"	"	X		"
	WALLACE CHANNEL LIGHT 5		35	05	719	✓	76	03	580	✓	"	"	"	X		"
	WALLACE CHANNEL LIGHT 3		35	04	596	✓	76	02	1288	✓	"	"	"	X		"

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.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE CHARTED

STRIKE OUT ONE

Morehead City, N.C. 27 June

1947

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

The positions given have been checked after listing by

R. Dossett, Tampa Photogrammetric Office

R. Dossett, Tampa Photogrammetric Office

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.

TO BE CHARTED

Morehead City, N. C. 27 June 1947

/NONE/EXISTING/AIDS/QR/LANDMARKS FOR CHARTS

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

The positions given have been checked after listing by

William A. Rasure,
Photogrammetric Engineer

Chief of Party.

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 OR LANDMARKS FOR CHARTS

Morehead City, N. C.

1947

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

The positions given have been checked after listing by

George E. Vanadoe

Riley J. Sipe

[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.

TO BE DELETED

New Bern, N. C.

8 June 1948

I. Y. Fitzgerald

The positions given have been checked after listing by

Riley J. Sipe
Chief of Party.

Riley J. Sipe

North Carolina

SHEEP ISLAND SLUE LIGHT 5

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-8727
35° 00' - 76° 00' / 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 boat. All fixed aids to navigation were cut in by planetable on an aluminum mounted sheet. Reference to the letter from Chief, Division of Photogrammetry (Field Edit of the Barrier Beaches) dated 18 May 1948, to Lieut. Comdr. Riley J. Sipe. Copy of letter filed in Descriptive Report T 8711.

47. ADEQUACY OF THE COMPILATION

The compilation was found to be adequate and correct.

Difficulty was encountered in the Compilation Office with the sextant fixes, furnished by the field inspection party for the location of fixed aids to navigation. All aids to navigation in this quadrangle were cut in by planetable methods with a minimum of three cuts to each aid; most of these aids having at least four cuts.

SHEEP ISLAND SLUE LIGHT 5 has been destroyed and replaced by a buoy. Form 567 for deletion is incorporated within this report.

WALLACE CHANNEL LIGHT 3 was not submitted on Form 567 with the original field data. It has been incorporated within this report.

Form 567 and Form 524 are being submitted for the Cupola on Portsmouth Island which was omitted during the original field inspection.

Topographic station EMOT has been destroyed since 1947. Form 524 was submitted with the field edit data. The island on which this station was located is changing rapidly, therefore this station was not replaced.

The Coast Guard Station on Portsmouth Banks has been de-commissioned. All buildings have been sold to private individuals, and is now used for a hunting and fishing club. This station should not be mapped as such, neither by number nor by name.

48. ACCURACY TESTS

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

18. GEOGRAPHIC NAMES

Attention is called to TURTLE ROCK and FLOUNDER SLUE ROCK which are located near Wallace Channel. The names TURTLE ROCK and FLOUNDER SLUE ROCK are well known names by the local fishermen. It is recommended that they be retained, although the features are not visible above the plane of the M.T.W.L.

Attention is called to the name of triangulation station PORTLAND SPIRE, 1933. Since this church spire is located in the small settlement of Portsmouth, the name is very confusing. It is recommended that the name be changed to PORTSMOUTH SPIRE, 1933. See recovery note (Form 526) submitted in 1947.

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. Sips
Riley J. Sips
Chief of Party

GEOGRAPHIC NAMES

Survey No. T-8727

PORTSMOUTH ISLAND

1 Name on Survey

	A	B	C	D	E	F	G	H	K	
North Carolina									USGB	1
Hyde County										2
Carteret County										3
Atlantic Ocean										4
Pamlico Sound									USGB	5
North Half:										6
Ocracoke Island										7
Ocracoke Point of Beach										8
Ocracoke Inlet										9
Portsmouth Island										10
Ocracoke Inlet Channel										11
Vera Cruz Shoal										12
Teaches Hole Channel										13
Old Swash Way										14
Big Foot Slough Channel										15
Blair Channel										16
Flounder Slue										17
Beacon Island										18
North Rock										19
Flounder Slue Rock										20
Shell Castle										21
Turtle Rock										22
Turtle Turtle Rock Channel										23
Wallace Channel										24
Old Field										25
Sheep Island Slue										26
Casey Island										27

GEOGRAPHIC NAMES

Survey No.

T-8727

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
✓	Cross Rock Channel +									1
✓	Bush Shoal +									2
✓	Haulover Point +									3
✓	Portsmouth +									4
✓	Baymarah Thorofare +									5
✓	Sheep Island +									6
✓	Casey Bay +									7
										8
	South Half:									9
✓	Signal Shoal +									10
✓	Evergreen Slough +									11
✓	Evergreen Island +									12
✓	The Haulover +									13
✓	Royal Point +									14
✓	Royal Point Bay +									15
✓	Willis Creek +	Name not being shown on Quad. Map								16
✓	Three Hat Creek +	"	"	"	"	"	"	"	"	17
✓	Daniel Swash +									18
✓	The High Hills +									19
✓	High Hills Inlet +									20
✓	Whalebone Island +									21
✓	Whalebone Inlet +									22
										23
										24
										25
										26
										27

Names underlined in red are approved. 11/5/48 IH

DIVISION OF PHOTOGRAMMETRY
Review Report of
Topographic Map Manuscript T-8727

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

26. Control

All horizontal and vertical control of third order accuracy or better, known to be in existence at the time of field edit, has been shown on the map manuscript.

The name of triangulation station, Portland Spire 1933, has been changed to Portsmouth Spire 1933. The name change was recommended by the field party, approved by the Division of Geodesy, and applied to the map manuscript T-8727.

28. Detailing

The original delineation was adequate except for minor corrections and changes made by the reviewer, which included:

- A Delineation of woodland cover, adjusted to conform with Photogrammetry Instructions 21, dated August 18, 1948.
- B Deletion of doubtful shoal delineation.

30. Mean High-Water Line

The action of wind, tide, current and shifting sands cause continual changes to the shoreline. Contrary to recommendations and the delineation by the compiler, the mean high-water line of the outer banks of Portsmouth Island has been shown by the reviewer as a surveyed shoreline and not as an approximate or unsurveyed shoreline.

The mean high-water line, shown by the reviewer is the mean high-water line at the time of photography, supplemented by field inspection, and has been delineated from 3 sources.

The mean high-water line of the outer banks of Portsmouth Island, southwest of longitude 76°03' was from field inspected, single lens Marine Corp photographs of July 7, 1947.

The remainder of the mean high-water line was delineated from 9-lens photographs of April 7, 1946, supplemented by field inspection notes of June 1947, except for the southwestern portion of Ocracoke Island which was delineated on 14 Feb. 1947 by planetable traverse on the 9-lens photographs.

31. Low-Water and Shoal Lines

The Atlantic Ocean low-water line along the outer banks of Portsmouth Island, were not delineated because the identification was impracticable for the field inspection party.

At break-throughs and inlets from the Atlantic Ocean, Pamlico Sound has a periodic tide. Where the low-water line could be identified it has been delineated, however it is so approximate and incomplete that it will not be published on the quadrangle, and is being retained on the map manuscript, only as an aid to hydrographic parties.

34 Landmarks and Aids to Navigation

All fixed aids to navigation were located by the field edit party on a metal mounted planetable sheet, filed in the general files of the Division of Photogrammetry with map manuscript T-8727

All landmarks and fixed aids to navigation have been reported on form 567.

38 Political Boundaries

Boundaries were investigated by the field inspection party and the subject is adequately covered by a special report on Boundaries PH5, filed in the general files of the Division of Photogrammetry. *The boundary line between Cedar Island and Portsmouth Townships has been added to the map manuscript. BTH.*

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 approved Geographic Names for T-8727. A special Geographic Names Report for PH5 is filed in the Geographic Names Section of the Division of Charts.

44 Comparison with Existing Topographic Surveys

Comparison was made with the following Topographic Surveys, and all common topographic features are superseded by T-8727.

376	1:20,000	1852
622	1:10,000	1857-66
1016	1:20,000	1866
2739	1:20,000	1905
3662	1:40,000	1916
6924a	1:10,000	1942-43

47 Adequacy of Compilation

An examination of map manuscript T-8727 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 Test

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 National Map Accuracy Standards.

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

Vertical

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 Map Accuracy Standards", supplemented by appropriate statements on unstable features.

Reviewed by:

Harland R. Cravat
Harland R. Cravat Nov. 8, 1948

Approved by:

S. V. Griffith
Chief, Review Section K.H.M.

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

K. T. Adams
Chief, Div. of Photogrammetry

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

T-8727

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

Smooth Drafting: 13 December 1948

Checking: 15-20 December 1948

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

30 December 1948

Color proof furnished by the Geological Survey and
examined by _____

Name

Date

Published by the Geological Survey.

NAUTICAL CHARTS BRANCH

SURVEY NO. 8727

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.