

8717

NAS

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) A Office No. T-8717

LOCALITY

State North Carolina

General locality Dare County

Locality Outer Banks - Hatteras

1946-'48

CHIEF OF PARTY

R.J.Sipe

LIBRARY & ARCHIVES

DATE

2128

## DATA RECORD

T-8717

Quadrangle (II):

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

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: Nov. 21, 1947

Reported to Nautical Chart Section: Nov. 28, 1947

Reviewed: Oct. 1948

Applied to chart No.

Date:

Redrafting Completed:

Registered: ~~Preliminary~~ Dec. 3, 1948 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): Hatteras Southern Methodist Church Spire, 1935

Lat.:  $35^{\circ} 13' 06''$  977 (215.0m) Long.:  $75^{\circ} 41' 24''$ .927 (630.4m) Adjusted  
~~Unadjusted~~

State Plane Coordinates (VI): NORTH CAROLINA

X = 2,988,342.61

Y = 550,950.35

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
16085	7 April 1946	0906	1:10,000	1.1
16086	"	"	"	"
16087	"	"	"	"
16088	"	"	"	"
16089	"	"	"	"
16079	"	0853	"	1.0

Tide from (III): Reference Station Hampton Roads  
Hatteras Inlet

Mean Range: 2.0

Spring Range: 2.4

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

Field Inspection by: S.J. Hathorn  
I.Y. Fitzgerald  
E.L. Williams

date: 14-31 Jan., 1947

Field Edit by: J.K. Wilson

date: June 1948

Date of Mean High-Water Line Location (III): 22 Jan. 1947 to 6 Feb. 1947

Projection and Grids ruled by (III) Washington Office

4 June 1947  
date: 31 May '47

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

date: 31 May '47  
4 June '47

Control plotted by: R.J. Pate

date: 16 June 1947

Control checked by: M.M. Slavney

date: 16 June 1947

Radial Plot by: M.M. Slavney

date: 26 Aug. 1947

Detailed by: R.R. Wagner

date: Aug. '47  
Oct. '47

Reviewed in compilation office by: J.A. Giles

date: Oct. '47

Map Manuscript

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

date: Oct. '47

STATISTICS (III)

Land Area (Sq. Statute Miles): 6

Shoreline (More than 200 meters to opposite shore): 20.7 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 8.6 Statute Miles

Number of Recoverable Topographic Stations established: 6

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: 2.5

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

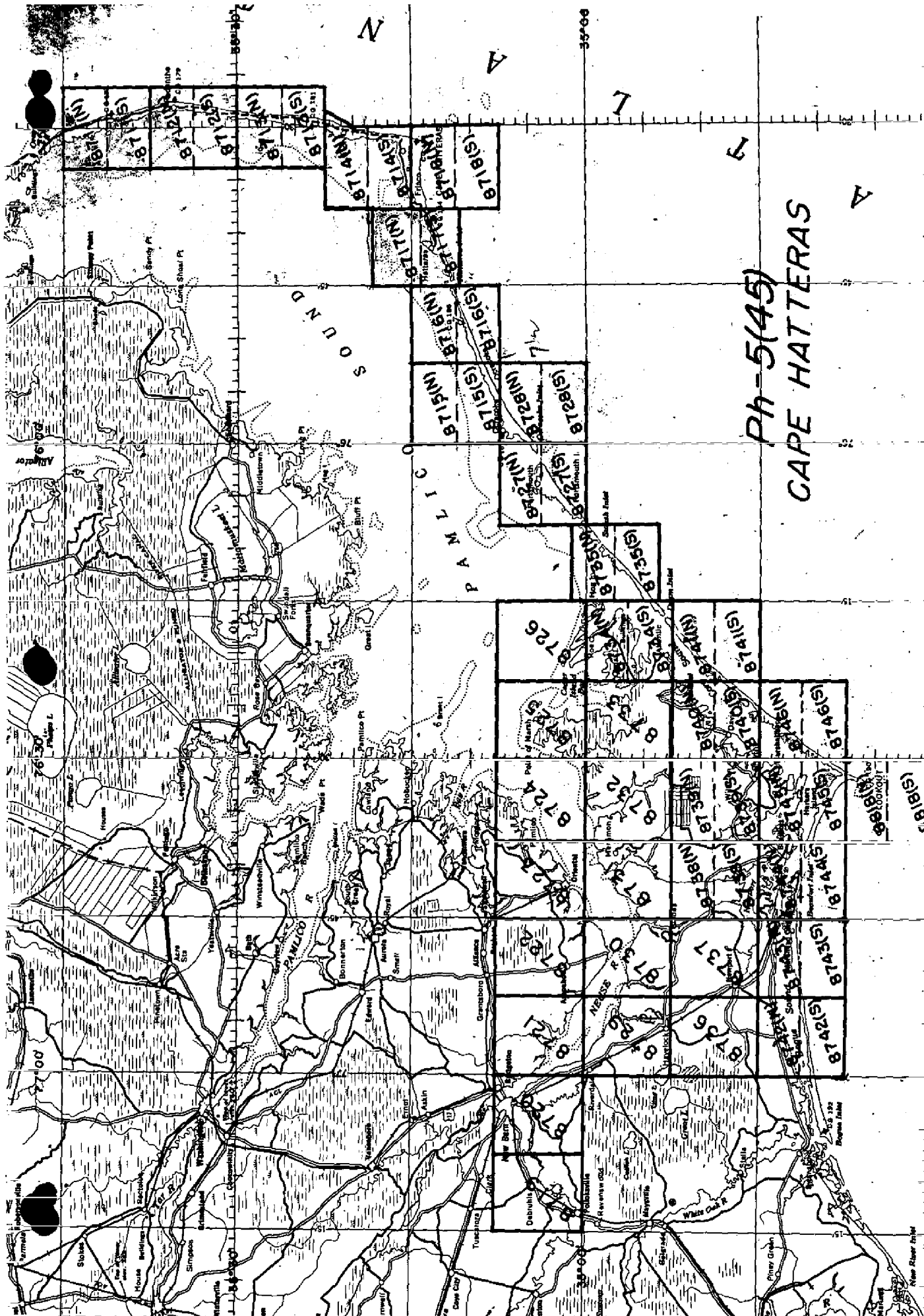
When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:



STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS	DATUM CORRECTION		N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
					FORWARD	(BACK)	FORWARD	(BACK)	
Creeds Hill C.G. Tower, 1938	G.P. Page 581	N.A. 1927	35° 13' 30.157 75 38 31.110	Field edit sheet. Reports station destroyed. Form 524 submitted			929.3 (919.7) 786.7 (730.6)		
Durants C.G.	G.P. P. 582	"	35 12 52.211 75 40 32.240				1609.0 (240.0) 815.4 (702.1)		
Cape Hatteras Goosewing Gun Club Page House Cupola 1935	G.P. 362	"	35 12 27.76 75 42 22.22				855.5 (993.5) 562.0 (955.7)		
Cross Shoal Bn 1935	G.P. P. 358	"	35 13 05.340 75 44 10.002				164.6 (1684.5) 253.0 (1264.5)		
Barney Slue Bn. 1935	G.P. P. 362	"	35 13 09.744 75 43 53.196				300.3 (1548.7) 1345.3 ( 172.1)		
Pipe Station A-1	C of E 497	"	35 13 24.072 75 38 50.153				741.8 (1107.2) 1268.3 ( 249.0)		
Cape Hatteras Weather Bureau Signal Station	G.P. Page 362	"	35 13 12.976 75 41 26.656				399.9 (1449.1) 674.1 ( 843.3)		
Hatteras Southern Methodist Church Spire. 1935	G.P. P. 362	"	35 13 06.977 75 41 24.927				215.0 (1634.0) 630.4. (887.1)		
HILL 1947 Removed from Manuscript	3 Pt. Fix Pos Comp.		35 12 03.958 75 42 51.885				122.0 (1727.0) 1312.5 (205.3)		
Sub. Sta. #1 of Creeds Hill C.G. Tower.	S S Pos Comp		35 13 15.915 75 39 26.878	Removed from Manuscript			490.4 (1358.6) 679.7 (837.7)		
* NAME changed to, CAPE HATTERAS			GOOSEVILLE	GUNNING HOUSE,			cupola 1935		

[illegible]



PH-5(45)  
CAPE HATTERAS

Statement to Accompany Descriptive Report

T 8717

1. T 8717 is composed of <sup>Two</sup> ~~one~~ topographic map manuscripts, scale 1:10,000. ~~The half of the area is water and no manuscript was prepared.~~ The manuscripts are T 8717 1/2 and T 8717 3/2.
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 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 both map manuscripts to insure completeness and conformance with specifications, and to include corrections in accordance with the field edit survey of T 8717 N and S.
  - (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 8717 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 8717 will be filed and may be obtained as follows:
  - (a) Filed in the Division of Photogrammetry
    - (1) T 8717 N and S, scale 1:10,000, map manuscripts, field edit and final review corrections applied, and field edit sheet. The field edit sheet consists of a metal mounted planetable sheet, as well as the usual double wt. matte print.
  - (b) Filed in Coast and Geodetic Survey Archives
    - (1) Descriptive Report
    - (2) 1:10,000 scale, cloth mounted photographic print of map manuscripts, T 8717 1/2 and T 8717 3/2. (Advance print)
    - (3) The above prints ~~is~~ to be permanently registered and when T 8717 is published, a cloth backed copy of the published map will also be registered.  
A cloth-backed lithographic print, 1:10,000 scale will replace the photographic print Oct. 27, 1948 for the north and south half.

Harland R. Cravat

FIELD INSPECTION REPORT  
T-8717 (35° 07.5/75° 30'/7.5')  
Project Ph-5 (45)  
Sub-project A

Riley J. Sipe, Chief of Party

All phases of field work were completed in accordance with the Directors Instructions, Project Ph-5 (45). Field; and Instructions-Project Ph-5 (45) - Field, Supplement 1, 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:

<u>NAME AND TITLE</u>	<u>FIELD WORK</u>	<u>1947 DATES</u>
S. J. Hathorn Photogrammetrist	Shoreline Inspection and Horizontal Control Recovery	14 Jan - 24 Jan
I. Y. Fitzgerald Photo. Aid	Shoreline Inspection	22 Jan - 24 Jan
E. L. Williams Engr. Aid	Contours and Interior Inspection	28 Jan - 31 Jan

1. Description of the Area:

The land area embraced by this quadrangle consists entirely of a portion of the outer banks of North Carolina and lies between the village of Frisco and Hatteras Inlet. The area contains two distinct types of terrain; long narrow barrier beach covered by many small dunes with little vegetation; and sharp high ridges thickly covered with trees and under-brush.

The long narrow beach area is about half covered with marsh grass growing in the mud deposited by the waters of Pamlico Sound and the other half is an area of small sand dunes with an average elevation of about twelve feet. These dunes parallel the MHWL of the Atlantic Ocean through-out the entire length of the quadrangle.

The heavily wooded area comprises about one square mile of area and lies in the north-east corner of the quadrangle. Elevations here vary from four feet to ~~fifty~~ <sup>thirty</sup>-six feet above mean sea level.

Hatteras, with a population of about 500 is the only settlement within the limits of the quadrangle. Transportation facilities are poor through-out the area. The roads are only trails through the sand and woods but are passable at all times except during severe storms and are traversed daily by a passenger bus running from Hatteras north to Manteo and back. Ferry service is maintained between Hatteras and Englehard on the mainland and in an

emergency light planes can land on the beach, or if equipped with floats, in the waters of Pamlico Sound.

At the time of this survey the state of North Carolina was conducting a location survey in anticipation of the construction of an improved road to run from Hatteras to Avon and field edit must be alert for this new construction. Refer to p. 2, Field Edit Report.

The only U. S. Government installation in this quadrangle is the U. S. Weather Station located in Hatteras. Two former U. S. Coast Guard Stations, Durant C.G. Station and Creeds Hill C. G. Station, are now inactive and privately owned.

2. Completeness of Field Inspection:

Field inspection is felt to be adequate and complete.

3. Interpretation of the Photographs:

No great difficulty was encountered in interpretation of the photographs, although nine months had passed since the date of photography. Nine lens 1-10,000 scale photos were used for all phases of the field work.

4. Horizontal Control:

Control stations were located opposite the required photograph centers by the "substitute station method". One triangulation station in the Hatteras vicinity was identified (pricked direct) in accordance with the instructions.

Three additional triangulation stations were identified (pricked direct) in the quadrangle.

5. Vertical Control:

National Park Service bench marks with adjusted elevations were used in addition to U.S.C. & G.S. tidal bench marks for control of contours. In the extreme N.E. portion of the quadrangle, five spot elevations (BU 21 - BU 25) were established by fly levels. (See report for quad. T-8714)

6. Contours and Drainage:

Contouring was done directly on 9-lens photos, 1-10,000 scale using planetable methods. A stereoscopic examination was made prior to field work and form lines were drawn along the high ridges in the N.E. portion of the quad. After field work was completed, another stereoscopic examination was made to check the shapes of the contours. At the western end of the quadrangle there are a multitude of small dunes about 60 feet in diameter at the base and 10 feet at the top, with an average top elevation of about 11 feet.

A five foot contour encloses this area. It was not economically feasible nor physically possible to show all the depressions and all the peaks, therefore only the most prominent dunes were delineated.

7. Mean High Water Line:

The mean high water line was located by measurements from identifiable points of detail.

The shoreline around Hatteras Inlet is subject to change during stormy weather.

8. Low Water Line:

The mean low water line was not delineated along the Atlantic Ocean because of the difficulty of viewing the shoreline at low water. The mean low water line generally coincides with the MHWL along the shore of Pamlico Sound except in the vicinity of Hatteras Inlet.

9. Wharves and Shoreline Structures:

The piers and shoreline structures at Hatteras are of very poor construction and are used only by small fishing craft.

10. Details Offshore from High Water Line:

No comments necessary.

11. Landmarks and Aids to Navigation:

Data on Landmarks and Aids to Navigation has been submitted on Form No. 567.

There are three Daybeacons and three lights along the Rollinson Channel at Hatteras. These were not located by the field party, due to a long period of inclement weather. It is recommended that these aids be located by field edit with a planetable on a copy of the map manuscript.

At the time of original field work these lights were listed as Rollinson Channel Light No. 1; Rollinson Channel Light No. 2; and Rollinson Channel Light No. 3 in the 1946 Coast Guard Intracoastal Waterway Light List. The three daybeacons were not listed.

After the field party left the area, corrected charts were received showing new numbers for all these aids. Due to the conflict above the aids are not listed here.

There is one other aid to be located by field edit. (Planetable methods on map manuscript recommended.) BARNEY SLOUGH LIGHT in Hatteras Inlet.

The two Coast Guard Stations selected as landmarks in this quadrangle were only recently acquired by private ownership. It is recommended that the Field Edit check the possibility of these buildings being moved or remodeled in the future. No reference by Field Edit on Edg

All aids located. Refer to copies of Form 567 attached to this Descriptive Report.

12. Hydrographic Control:

Recoverable topographic stations were established in accordance with project instructions.

Rec. Topo Stations

Tripod, 1947

Tube, 1946

Tent, 1947

Paul, "

Hatteras Inlet Light 2, 1947

" " " 4, "

524 cards in  
general files of  
Div. of Photogrammet

13. Landing Fields and Aeronautical Aids:

There are no landing strips.

A small hanger is shown on photograph #16088 just W of Hatteras.

This does not indicate a landing field, nor are there any mechanics or regular personnel assigned there.

14. Roads:

Only sand trails exist throughout the quadrangle. From Hatteras village to Frisco village the road is fairly well defined and is passable as a rule. Along the beach and from Hatteras to the West end of the island the roads are poor and passable only by experienced drivers.

15. Bridges:

There are no bridges within the limits of this quadrangle.

16. Buildings:

Adequately covered on the photographs.

17. Boundaries:

No boundaries were shown on photographs. The legal description of all boundaries affecting this quadrangle will be submitted with all other boundary information for Project Ph-5 (45) A. These descriptions contain sufficient information for placing them on the map manuscript. Filed in General Files of The Division of Photogrammetry

18. Geographic Names:

Geographic names information will be incorporated in a special Geographic Name report by A. J. Wraight, Topographic Engineer.  
" " " Filed in Geographic Names Section of the Division of Charts.

Submitted.

April 1947

*E. L. Williams*

E. L. Williams

Engineer Aid

Approved:

*R. J. Sipe*

R. J. Sipe

Chief of Party



COMPILATION REPORT  
TO ACCOMPANY  
QUADRANGLE T-8717

26 AND 27. CONTROL AND RADIAL PLOT:

A special report was prepared and submitted to the Washington Office by Mr. Milton M. Slavney, Photogrammetric Engineer on 17 October, 1947. Filed in General Files of the Division of Photogrammetry.

28. DELINEATION:

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

There was no photograph coverage of Bird Island which appears on Nautical Chart No. 1232, dated 23 February 1946. For added information see paragraph (B) photographs, of the Report on Main Radial Plot and paragraph 40 of this report.

Bird Island was located by Field Edit Survey.

29. SUPPLEMENTAL DATA:

None was used.

30. MEAN HIGH WATER LINE:

The recovery of the mean high water line was sketchy as a whole and the field inspector did not follow any particular marking or line on the photographs. The compilation of shoreline was satisfactory.

31. LOW WATER AND SHOAL LINES:

The low-water line has been shown as recovered by the field inspector. The Hatteras Inlet area is the only place the low-water line was indicated on the field photographs. The approximate limits of shoals have been delineated whenever visible on the photographs.

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

There is a wrecked barge located near Hatteras Inlet at approximately latitude 35° 11' 7" and longitude 75° 43' 9".

33. WHARVES AND SHORELINE STRUCTURES:

The piers at Hatteras village were shown although the field inspector reported they were of poor construction and used by small crafts only.

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

It is believed that the topographic station Cross Shoal Day-  
beacon and triangulation station Hatteras Inlet Cross Shoal Beacon,  
1935 are the same station. Classification of this has been requested  
of the field editor. It is suggested that topographic station  
Barney Slough Daybeacon, 1947 be cut in by the field edit party.  
The identification of this station on the office photographs is not  
positive. This is a triangulation station.

*Verified as  
Correct by the  
Field Editor*

*Cut in by  
Field Editor*

The Hatteras Inlet Light No. 2, 1947 will not plot with the angles  
furnished. It is requested that the field editor locate this light.

*Located by Field Editor*

#### 35. HYDROGRAPHIC CONTROL:

See field inspector's report item No. 11.

#### 36. LANDING FIELDS AND AERONAUTICAL AIDS:

None falls within this quadrangle.

#### 37. POLITICAL BOUNDARIES:

No information on political boundaries has been received by this  
office as of 14 October 1947. Refer to item 37 of Review Report.

#### 38. GEOGRAPHIC NAMES:

No geographic names data have been received in this office as  
of 14 October, 1947. Refer to item 38 of Review Report.

#### 39. TIDE CURVE:

A tide curve was drawn up for the photographs that cover this  
quadrangle. The stage of tide given by the field inspector on the  
backs of the field prints is not in agreement with the tide curve  
drawn up by this office. Data on Photos is in error. *HPK*

#### 40. BIRD ISLAND SURVEY:

Five photo-hydro stations, having descriptive titles, have been  
selected by this office under authority in a letter from the Acting  
Director to the Chief of Party, dated 16 September, 1947 73-aar.

*Destroyed. Refer to copy of Form 567, attached.*

A copy of this letter is bound with this report. In addition to the foregoing five stations Creeds Hill C.G. Tower, 1938 and its sub-point have been selected since they both appear to be excellent for the purpose intended; there being nothing to hinder their visibility from Bird Island. All of these stations have been indicated with red ink on the map manuscript. Refer to par 35, Review Report.


44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

There are no topographic maps available that covers this area.


45. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Nautical Chart No. 1232, dated 23 February 1946. It was noted around Hatteras Inlet that the high water line has changed. The rest of the quadrangle seems to be in agreement with the Nautical Chart except for the omission of Bird Island. See paragraph 40.

Respectfully submitted,

  
Robert R. Wagner  
Photogrammetric Aid

Approved and Forwarded: -

  
George E. Morris, Jr.  
Chief of Party.  
*By: William A. Rasure*

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TO BE CHARTED }  
~~TO BE CHARTED~~ }  
 NONFLOATING AIDS OR LANDMARKS FOR CHARTS "This copy for Coast Pilot"  
 STRIKE OUT ONE

STRIKE OUT ONE

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

The positions given have been determined by the following methods:

Morehead City, N.C. 17 February

**Robert R. Wagner, 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 for individual field survey sheets. Information.



STRIKE OUT ONE

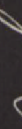
## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

New Bern, N. C. 29 June, 1948

I recommend that the following objects which have ~~(been not)~~ been inspected from seaward to determine their value as landmarks be ~~marked~~ *D. H. Fitzgerald*

J. V. Fitzgerald  
I. V. Fitzgerald

The positions given have been checked after listing by

  
 Riley J. Sipe

~~Riley J. Sipe~~ Chief of Party.



**STRIKE OUT ONE**

## NONTECHNICAL MARKS FOR CHARTS

"This copy for Coast Pilot"

Morehead City, N.C.

17 February

1947

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

The positions given have been checked after listing by

I.Y. Fitzgerald, Photo. Aid

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



## DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED  
~~TO BE DELETED~~

STRIKE OUT ONE

New Bern, N. C.

24 June

1948

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

Robert R. Wagner

Tampa Photogrammetric Office

Riley J. Speer

Chief of Party

STATE	NORTH CAROLINA	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
					LATITUDE		LONGITUDE									
					°	'	D. M. METERS	°	'	D. P. METERS						
			Rollinson Channel Light 1		35 15	826.8	75 43	18.06	456.5	N.A. 1927	Triangulation	1938	X		1232	
			Rollinson Channel Daybeacon 3		35 15	175	75 43		81	"	Plane table	1948	X		1232	
			Rollinson Channel Light 6		35 14	1427.1	75 42		1316.7	"	Plane table	1948	X		1232	
			Rollinson Channel Daybeacon 10		35 13	1454.	75 42		215	"	Plane table	1948	X		1232	
			Rollinson Channel Light 11		35 13	620	75 41		1146	"	"	1948	X		1232	
			Hatteras Inlet Light 2		35 11	1029	75 44		305	"	"	June 1948	X		1232	
			Hatteras Inlet Light 3		35 12		75 45			"	"	June 1948	X		1232	
			Hatteras Inlet Light 4		35 12	971	75 43		1447	"	"	June 1948	X		1232	
			Cross Shoal Daybeacon		35 13	164.6	75 44		253.0	"	Triangulation	1935	X		1232	
			Barney Blue Day Beacon		35 13	300.3	75 43		1345.3	"	"	1935	X		1232	
			Barney Blue Light		35 13	970	75 44		124	"	Plane table	June 1948	X		1232	
			Oliver Reef Light		35 15		75 45			"	Triangulation	1922	X		1232	
			Frisco Light		35 15	1550	75 37		132	"	Plane table	June 1948	X		1232	
			North point Light		35 13		75 37			"	Triangulation	1928	X		1232	

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 heading should be reported on the appropriate chart.



STRIKE OUT ONE

**NONE LOADING WINDOW LANDMARKS FOR CHARTS**

**Morehead City, N.C.**

The positions given have been checked after listing by

**Robert R. Wagner, Tampa Photogrammetric Office**

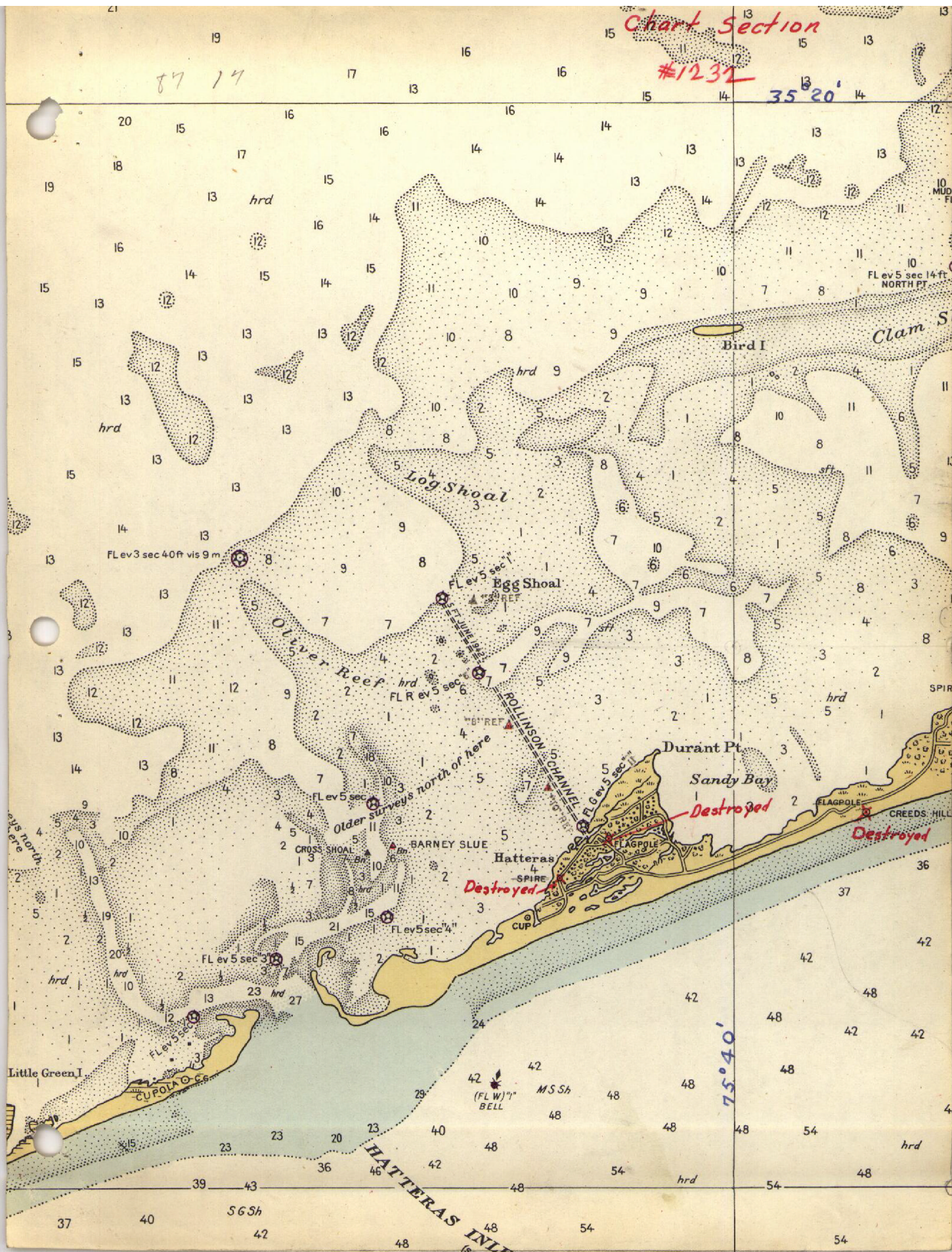
Lieut. Comdr. Riley J. Sipe

*Chief of Party*

[illegible]



75°40'





FIELD EDIT REPORT  
Quadrangle T-8717  
35°11'-75°37.5'/7.5  
Project Ph-5(45)  
Riley J. Sipe, Chief of Party

The field edit of this quadrangle was completed during June, 1948 by Joseph K. Wilson, Cartographer.

46. METHODS

This quadrangle was inspected by truck, traversing all existing roads. The area along Pamlico Sound was inspected by boat. All aids to navigation were cut in by planetable on a metal mounted sheet.

All features added to the map compilation were cut in by planetable or from measurements to topographic features.

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-8717.

Prior to the field edit of the Barrier Beaches in this project, the chief of party and the field editor inspected this entire area by airplane. This proved very beneficial to the field editor. Many changes since the field inspection were brought to the editor's attention during this inspection. This work was done at a small cost and it is recommended on future assignments, especially when the editor is not highly familiar with the area.

47. ADEQUACY OF THE COMPILATION

The map compilation was adequate and complete except for a few changes made since the field inspection.

All aids to navigation were cut in by planetable on a metal mounted sheet. Form 567 is included with this report. The following aids, all of which are triangulation stations, were verified: Rollinson Channel Light 1, Barney Slue Daybeacon, and Cross Shoal Daybeacon. Form 526 for all stations not previously submitted is included with the field edit data.

Rollinson Channel Daybeacon 8 has been destroyed. Form 567 is included with this report.

Attention is called to the location of Bird Island which was not covered by the photographs. This island was located by planetable on the metal mounted sheet. A temporary signal was erected on the island in acquiring a beginning point. The island is composed of a series of small sandy lumps which bare from 0.5 foot to 1.5 feet at low-water.

The permanent marking of a point on the island was not thought practical by the editor because of the wave action which, in a short time, would render it useless. Reference to the letter from Acting Director (Delineation of Bird Island) dated 16 September 1947 to Lieut. Comdr. George E. Morris, Jr. <sup>copy of</sup> Letter attached to Descriptive Report.

A portion of the new road from the village of Hatteras to the village of Avon has been delineated on a double weight print copy of the map manuscript. See field edit report for quadrangle T-8714.

All roads were reclassified according to Photogrammetry Instructions No. 10, dated 14 April 1947.

48. ACCURACY TESTS

There were no accuracy tests specified for this quadrangle.

18. GEOGRAPHIC NAMES

Attention is called to the name of a triangulation station; CAPE HATTERAS, GOOSE WING GUN CLUB HOUSE, CUPOLA, 1935. This name is misspelled. The gun club's name is CAPE HATTERAS GOOSEVILLE GUNNING HOUSE, CUPOLA, 1935. See Form 526, submitted by Riley J. Sipe in 1947.

All other geographic names as appear on the Names Sheet were verified.

The map was examined for possible errors by Mr. F. L. Peele of Hatteras. Mr. Peele has been a resident of the vicinity for over forty years and is highly familiar with the area. He found no errors except for the afore mentioned name.

Submitted:  
25 June 1948

*Joseph K. Wilson*  
Joseph K. Wilson  
Cartographer, Photo.

Approved:  
25 June 1948

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

16 September 1947

To: Lt. Comdr. George E. Morris, Jr.  
U. S. Coast and Geodetic Survey  
P. O. Box 1689  
Tampa, Florida

Subject: Delineation of Bird Island - Quadrangle T-8717.

Reference is made to your letter dated 27 August 1947 addressed to Lt. Comdr. Sipe, in which you suggest that Bird Island be surveyed by planetable.

It is agreed that the only practicable method of surveying Bird Island is by planetable. It is further understood, from conversations with Comdr. Sipe, that elevated triangulation stations do not exist in the area sufficient for the determination of positions on Bird Island by three-point fix because most of these objects are on the outer shore and are obscured by the inshore ridge and the sand dunes and vegetation.

To facilitate the work of the planetable party in determining a position on Bird Island, you will attempt to select a number of recoverable points on the Panlico Sound shore within the limits of quadrangle T-8717 and T-8714 that may serve as positions on which signals may be erected for sighting for three-point fix. The positions of these points shall be determined by radial plot and indicated on the manuscripts with the same symbol as photo-hydro stations.

The survey of Bird Island shall be deferred until the time of field edit, when an especially prepared planetable sheet will be made up in this office for use in the delineation.

It is requested that you bind the enclosed carbon copy of this letter with the descriptive report for T-8717.

~~Approved, J. H. [illegible]~~

Acting Director

cc: Lt. Comdr. Riley J. Sipe.



# GEOGRAPHIC NAMES

Survey No. **T-8717**

GEOGRAPHIC NAMES		Survey No. <u>T-8717</u>									
Name on Survey	On Chart No.										
	A	B	C	D	E	F	G	H	K		
<u>Joe Saur Creek</u> ✓										1	
<u>Hatteras Island</u> ✓										2	
<u>Duncan Point</u> ✓										3	
<u>The Slash</u> ✓										4	
<u>Slash Bridge</u> ✓										5	
<u>Sandy Bay</u> ✓										6	
<u>Durant Point</u> ✓										7	
<u>Hatteras</u> ✓										8	
<u>Duck Ponds</u> ✓										9	
<u>Isaac Pond</u> ✓										10	
<u>Clubhouse Creek</u> ✓										11	
<u>Pamlico Sound*</u> ✓										12	
<u>North Carolina*</u> ✓ (for title)										13	
<u>Atlantic Ocean*</u> ✓										14	
<u>Goose Creek</u> ✓										15	
<u>Fort Clark (ruins)</u> ✓										16	
<u>Inlet Peninsula</u> ✓										17	
<u>Middle Shoal</u> ✓										18	
<u>Hatteras Inlet</u> ✓										19	
<u>Main Channel</u> ✓										20	
<u>Dare Co.</u>										21	
<u>Hyde Co.</u>										22	
<u>Hatteras Twp</u>										23	
<u>Ocracoke Twp</u>										24	
* - Decis. of BGN										25	
Underlined names approved										26	
10-26-48.										27	
a j u.										28	

M 234



# GEOGRAPHIC NAMES

Survey No. **T-8717**

GEOGRAPHIC NAMES										
Survey No. T-8717										
Name on Survey										
	A	B	C	D	E	F	G	H	K	
Joe Saur Creek										1
Hatteras Island										2
Duncan Point										3
The Slash										4
Slash Bridge										5
Sandy Bay										6
Durant Point										7
Hatteras										8
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Isaac Pond										10
Clubhouse Creek										11
Pamlico Sound*										12
North Carolina*	(for title)									13
Atlantic Ocean*										14
Goose Creek										15
Fort Clark (ruins)										16
Inlet Peninsula										17
Middle Shoal										18
Hatteras Inlet										19
Main Channel										20
Dare Co.										21
Hyde Co	Refer to T-8716 names list. K.H.M.									22
Hatteras Twp										
Ocracoke Twp										23
										24
										25
										26
										27
										28

\* - Decis. of BGN

Underlined names approved

10-26-48.

A. J. W.

DIVISION OF PHOTOGRAMMETRY  
Review Report of  
Topographic Map Manuscript T-8717

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

26 Control

Horizontal

The field party recommended a name change for triangulation station Cape Hatteras Goosewing Gun Club, house cupola 1935, to Cape Hatteras Gooseville Gunning House, cupola 1935. The name change was approved by the Division of Geodesy, and has been applied to the map manuscript.

Triangulation Station Rollinson Channel Lt. No. 2, 1938 has been changed to Rollinson Channel Lt No. 6 on the map manuscript, to conform with the 1947 Light List. The reviewer informed the Division of Geodesy of the change in light number.

Vertical

National Park Service bench marks are located at half mile intervals along the barrier beach, and are described as mile posts, MP 70, MP 70.5 etc. Recovered bench marks have 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, 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 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.

35 Hydrographic Control

Four photo-hydro points delineated as an aid for the Bird Island survey have been retained on the map manuscript for additional information and will not be shown on the published quadrangle. To avoid confusion with the similar topographic station symbol, the photo-hydro points have been shown on the map manuscript in red plastic ink, without dates.

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

### 38 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-8717. A special Geographic Names Report for PH-5 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-8717.

623	1:10,000	1857	2950	1:20,000	1909
790	1:20,000	1860	3707	1:40,000	1917
1246	1:20,000	1872	6313	1:10,000	1935

### 45 Comparison with Nautical Charts

Comparison was made with Nautical Chart No. 1232 revised to April 5, 1948. No information on T-8717 is of sufficient importance to warrant immediate application to the chart.

### 47 Adequacy of Compilation

An examination of map manuscript T-8717 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 dunes the accuracy applies to the delineation of details as of the date of photography supplemented by field inspection and field edit surveys.



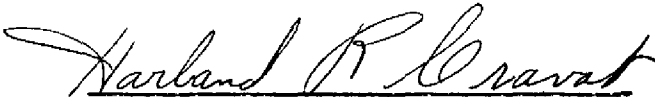
Vertical

No vertical accuracy test was made, as 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 Oct. 27, 1948

Approved by:

  
Chief, Review Section K. H. M.

  
Chief, Nautical Chart Branch  
Division of Charts

  
K. T. Adams, Chief,  
Division of Photogrammetry

  
Chief, Div. of Coastal Surveys

T-8717

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

Smooth Drafting: 18 ~~December~~ 1949

Checking: 21-24 February 1949

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

29 March 1949

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

Name

Date

Published by the Geological Survey.

## NAUTICAL CHARTS BRANCH

SURVEY NO. 8717

## 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.