8742

NE, SW & S

Diag. Cht. No. 1234-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC &SHORELINE
SALTER PATH

Field No. PH-5(45) Office No. T-8742

LOCALITY

State NORTH CAROLINA

General locality CARTERET COUNTY

Locality WEST OF MOREHEAD CITY

1947-49

G.E.Morri CHIEF OF PARTY

R. J. Sipe, Chief of Field Party
R.A. Gilmore, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE July 9, 1951

8-1870-1 (1)

8742

Form T-1

DATA RECORD

T-8742

Quadrangle (II): SALTER PATH Project No. (II): Ph-5(45)

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

Compilation Office: Tampa, Fla. Chief of Party: Ross A. Gilmore

Instructions dated (II III): Undated Supplement #1 Copy filed in ~~Descriptive Report No. T-~~ (VI) ~~—~~ Division of Photogrammetry Office Files

Completed survey received in office: 8/31/49

Reported to Nautical Chart Section: 9/7/49

Reviewed: 5/5/50 Applied to chart No. Partially 1234 833 Date: 6/8/49 12/15/47 4/14/48

Redrafting Completed:

Registered: 6/12/50 Published:

Compilation Scale: 1: 20,000 Published Scale: 1:24,000

Scale Factor (III): None

Geographic Datum (III): N.A. 1927 Datum Plane (III): M.S.L.

Reference Station (III): GALE, 1933

Lat.: 34° 43' 17."520 (539.9m) Long.: 76° 54' 40."474 (1029.8m) Adjusted ~~xAdjusted Unadjusted~~

State Plane Coordinates (VI): North Carolina State Grid

X = Y =

Military Grid Zone (VI)

M-2467-12(3)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
16220	11 April 1946	9:42	1: 20,000	See Report for Shoreline Survey (attached)
16221	"	9:44	"	"
16222	"	9:46	"	"
16225	"	9:48	"	"
16226	"	9:50	"	"
16227	"	9:52	"	"

Tide from (III): See Descriptive Report for Shoreline Survey

Mean Range: **Spring Range:**

Camera: (Kind or source) U.S.C. & G.S. 9-Lens 8¼" focal length

Field Inspection by: E.L. Williams, M.A. Stewart and R.A. Horn **date:** Dec.'46—July'47

Field Edit by: E.T. Jenkins **date:** June 1949

Date of Mean High-Water Line Location (III): See Report for Shoreline Survey

Projection and Grids ruled by (III) H.R. — W.O. **date:** 26 Nov.'47

" " " **checked by:** T.L.S.— W.O. **date:** 26 Nov.'47

Control plotted by: R. Dossett **date:** 6 Jan. 1948

Control checked by: R.J. Pate **date:** 6 May 1948

Radial Plot by: M.M. Slavney **date:** 4 Aug. 1948

Detailed by: W.W. Dawsey **date:** 31 Aug. 1948

Reviewed in compilation office by: J. Giles **date:** Sept. 1948

Map Manuscript

Elevations on ~~Field Edit Sheet~~

checked by: J.A. Giles **date:** " "

STATISTICS (III)

Land Area (Sq. Statute Miles): 21

Shoreline (More than 200 meters to opposite shore): See Shoreline Survey Descriptive Report

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

Number of Recoverable Topographic Stations established: "

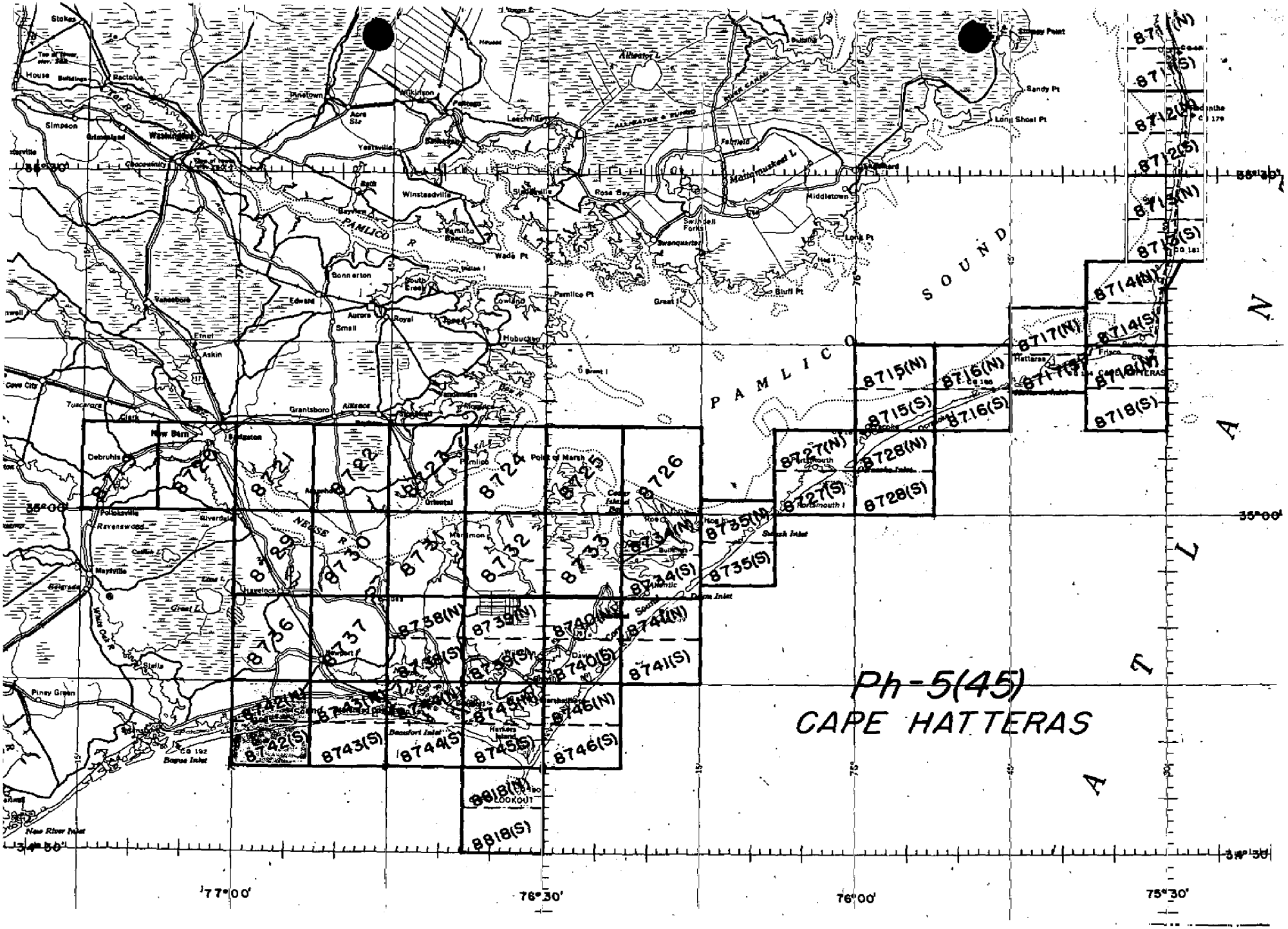
Number of Temporary Hydrographic Stations located by radial plot: "

Leveling (to control contours) - miles: 8

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:


Ph-5(45)
CAPE HATTERAS
PAMLICO SOUND
ATLANTIC
8715(N)
8715(S)
8716(N)
8716(S)
8717(N)
8717(S)
8718(N)
8718(S)
8714(N)
8714(S)
8712(N)
8712(S)
8711(N)
8711(S)
8727(N)
8727(S)
8728(N)
8728(S)
8735(N)
8735(S)
8734(N)
8734(S)
8741(S)
8742(N)
8742(S)
8743(S)
8744(S)
8745(S)
8746(N)
8746(S)
8818(N)
8818(S)
77°00'
76°30'
76°00'
75°30'
35°30'
35°00'
34°30'

Summary Report to Accompany T-8742

T-8742 is one of a series of eight quadrangles in Project Ph-5(45) which are composed of three separate map manuscripts; i.e., one standard 7½-minute topographic quadrangle, scale 1:20,000, and one N/2 and S/2 shoreline map manuscripts, scale 1:10,000, which are 3 3/4' in latitude and 7½' in longitude.

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

The several mapping operations were:

(a) Nine-lens photography and laboratory processing, 1:20,000 scale and 1:10,000 scale.
(b) The field work including identification of shoreline; identification and establishment of horizontal and vertical control, planetable contouring, clarification of photographic detail and geographic names investigation. No shoreline was identified on the 1:20,000 photographs.
(c) Compilation by graphic methods. A reduction of the shoreline compilation which is limited to an alongshore zone approximately 200 meters wide was traced directly to the 1:20,000 scale topographic compilation. See paragraph 28 of compilation report
(d) Preliminary office inspection.
(e) Field edit.
(f) Final review of the manuscripts to ensure completeness and conformance with specifications, and to include corrections in accordance with the field edit survey.
(g) Processing
A 1:20,000 scale glass plate negative of the topographic map will be prepared for transmittal to the Geological Survey.

T-8742 will be published and distributed by the Geological Survey at a scale of 1:24,000 as a standard topographic quadrangle in accordance with an agreement of March 25, 1947.

Data pertaining to T-8742 will be filed and may be obtained as follows:

(a) Filed in the Division of Photogrammetry

1. Three map manuscripts, T-8742 scale 1:20,000, T-8742 N and S., scale 1:10,000; field edit and final review corrections applied.

2. Field edit sheet.

(b) Filed in the Coast and Geodetic Survey Archives

1. Combined Descriptive Report

2. A cloth-backed lithographic print of T-8742 at 1:20,000 scale.

3. A 1:10,000 scale cloth-backed lithographic print of shoreline map T-8742 N/2 and S/2.

4. When T-8742 is published, a cloth-backed copy of the published map, at a scale of 1:24,000 will be registered.

FIELD INSPECTION REPORT

T-8742 (34-37.5/76-52.5/7.5)

Project Ph 5 (45)
Sub-project B

Riley J. Sipe, Chief of Party

All phases of the field work were done in accordance with The Directors Instructions, Project Ph 5(45), Field, undated; and supplement #1 to the above, dated 11 December 1946, except for deviations noted herein.

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

Name & Title	Field Work	Dates
E. L. Williams, Engineering Aid	Horizontal Control, Recovery, Shoreline Inspection.	9 Dec 46 - 31 Dec 46
M. A. Stewart, Engineering Aid	Levels, Vertical Control Recovery, Interior Inspection, and Contours.	7 Mar 47 - 14 July 47
J. R. Smith, Engineering Aid	Levels and Vertical Control Recovery.	7 Mar 47 - 10 Mar 47
R. A. Horn, Photogrammetrist	Contours (Bogue Banks), Interior Inspection.	12 Mar 47 - 15 April 47

1. Description of the Area.

The land area embraced by the quadrangle lies about ten miles west of Morehead City, North Carolina and includes a portion of the Bogue Banks as well as the mainland. Bogue Sound splits the quadrangle from east to west.

The Bogue Banks are very thickly covered with trees and tangled underbrush. The woods and underbrush have grown up covering high sand dunes, making extremely difficult country to work. The mainland portion extends westward along Bogue Sound from Morehead City. In general the land is thickly covered with pine, interspersed with low thick brush. Although the land is relatively high it contains much swampy land. The mainland side of Bogue Sound has many small farms and numerous summer homes. There is considerable new construction in progress in this area.

There is one main highway that runs through the quadrangle, North Carolina Highway # 24, which roughly parallels Bogue Sound.

2. Completeness of Field Inspection.

It is believed that the field inspection is complete and adequate. As previously mentioned there is much new construction in progress along the Bogue Sound, on the mainland side, and field edit must be alert for these added features.

3. Interpretation of the Photographs.

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

4. Horizontal Control Identified.

The following Triangulation Stations were identified on the photographs for use in the control of the plot

GALE 1933	
BROAD CREEK 2	1915-1932
SANDERS POINT	1908-1933
ROCKY POINT	1908-1913
BANK	1908-1913
PINEY POINT 2	1908-1933

In addition to the triangulation stations, two (2) Corps of Engineers Traverse Stations were identified. They are as follows:

30 - NC-1 - 3TT A 158 - STA 13

30 - NC-1 - 3TT A 158 - STA 14

5. Vertical Control.

Vertical Control consisted of the recovery of existing Bench Marks and the establishment of supplemental control by the use of the Wye Level. Two Bench Marks were recovered and Form # 685 is submitted on same. 40.5 miles of levels were run and 57 points of elevation were set; the average closure was 0.4'

6. Contours and Drainage.

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

Inconsist. all contouring was done on the 1:20,000 scale photographs.

See paragraph 3? of Compilation Report

The prescribed planetable procedures were employed in contouring this area, and in the location of drainage. In the areas of exceptionally dense vegetative growth, particularly on the Bogue Banks, hand level lines were employed for economy.

The drainage on the mainland forms a normal pattern and is augmented considerably by numerous drainage ditches in the cultivated sections. These ditches are very narrow and generally two to five feet deep. No attempt was made to contour same since it was felt that by so doing a distortion of the true character of the land would be created.

Drainage on the Bogue Banks is primarily by seepage. The rainfall, which collects in the many pockets or depressions, is gradually eliminated in this manner.

7. Mean High Water Line.

On the ocean beach of Bogue Bank the mean high water line is about eight meters south of the storm water line and appears as the junction of a white line (sand) and a gray line (supposedly the water edge). On the sound side and on the mainland the mean high water line was delineated on the photographs.

The range of tide is approximately 2.5 feet.

8. Low Water Line.

The field investigation indicates the photography was about half tide. What was believed to be the low water line was delineated at those areas visited when the tide was at low water as given by the tide tables.

9. Wharves and Shoreline Structures.

Adequately covered on the photographs.

10. Detail Off-Shore From High Water Line.

Adequately covered on the photographs except it is to be noted that the "FLOAT" charted on chart No. 1234 should be deleted.

11. Landmarks and Aids to Navigation.

All landmarks are reported on Form # 567. Aids to Navigation that were identified are as follows:

(1) Bogue Sound Light # 21
(2) Bogue Sound Light # 25
(3) Bogue Sound Light # 29
(4) Bogue Sound Light # 33

Aids to Navigation that were ~~left for the field edit party to identify~~ located by theodolite cuts are Bogue Sound Day Beacons with numbers as follows: 19, 20, 22, 23, 24, 26, 27, 28, 30, 31, 32, 34, & 35.

12. Hydrographic Control.

Fifteen topographic stations were identified on the photographs and described on Form # 524. Two of the topographic stations were identified on the photographs by means of photogrammetric stations.

Five additional hydrographic stations were identified on the photographs and described in a loose leaf notebook. See review report for descriptions

13. Aeronautical Aids and Landing Fields.

There are no landing fields in this quadrangle.

14. Road Classification.

All roads have been classified in accordance with General Instructions dated 30 June 1945.

15. Bridges.

There are no bridges over navigable waters in this quadrangle.

16. Buildings and Structures.

Adequately covered on the photographs.

17. Boundaries.

One boundary is noted on the photographs, that of the Croatan National Forest. It is located in the northern area of this quadrangle. A legal description and detailed information on this boundary is covered in a special report by Mr. A. J. Wright, Topographic Engineer. General Files, Div. of Photogrammetry

18. Geographic Names.

Geographic Names will be the subject of a special report by Mr. A. J. Wraight Topographic Engineer. Filed in Geographic Names Section, Div. of Charts.

M. A. Stewart

M. A. Stewart,
Engineering Aid

Approved:

Riley J. Sipe

Riley J. Sipe,
Chief of Party

MAP T- 8742 PROJECT NO. Ph-5(45) SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-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)
* 1908 416 Sanders Pt.	G.Ps. Page 491 Line 6	N.A. 1927	34°41' 34.867			1074.4 (774.5)	
			77 00 16.052			408.6 (1118.5)	
* 417 Piney Point 2, 1908	G.Ps. Page 491 Line 5	"	34 40 33.458			1031.0 (817.9)	
			77 00 52.969			1348.5 (178.9)	
* Bogue Inlet C.G. 425 Flagpole 1927	G.Ps. Page 510 Line 4	"	34 38 50.008			1540.9 (307.9)	
			77 05 46.343			1180.2 (347.8)	
* 426 Wood, 1908	G.Ps. Page 492 Line 3	"	34 40 30.237			931.7 (917.2)	
			77 05 06.934			176.5 (1350.9)	
400 New port 2 1908	G.Ps. Page 491 Line	"		Cannot find G.P.			
404 Knoll, 1931	Sp.Pub192 Page 24 Line 8	"	34 43 30.480			939.2 (909.7)	
			76 56 06.858			174.5 (1352.0)	
405 Gale, 1933	G.Ps. Page 491 Line 3	"	34 43 17.520			539.9 (1309.0)	
			76 54 40.474			1029.8 (496.8)	
411 Broad Cr. 2 1908	Sp.Pub.192 Page 32 Line 5	"	34 42 41.637			1283.0 (565.8)	
			76 56 44.185			1124.4 (402.4)	
475 C of E Mon. # 13	C of E 475 Line	"	34 42 49.592			1528.1 (320.7)	
			76 59 09.253			235.5 (1291.3)	
476 C of E. Mon. # 14	C of E 476 Line	"	34 42 52.194			1608.3 (240.5)	
			76 58 53.292			1356.0 (170.7)	
Rocky Point 2, 1908-1933	G.P. P. 491 Line 2	"	34 41 26.704			8229 (1025.9)	
			76 53 40,626			1034.1 (493.1)	
413 Bank, 1908	G.Ps. P. 491 Line 4	"	34 40 39.608			1220.5 (628.4)	
			76 57 54.712			1392.9 (134.5)	

West of Project Limits

1 FT. = .3048006 METER * Falls west of Project Limits.

COMPUTED BY: W.H. Shearouse DATE 3 April 1947 CHECKED BY: M.M. Slavney DATE 11 July 1947

M-2388-12

COMPILATION REPORT
TO ACCOMPANY
QUADRANGLE T-8742
TOPOGRAPHIC SURVEY

26 AND 27. CONTROL AND RADIAL PLOT:

A special report No. 6, has been submitted by M.M. Slavney, Photogrammetric Engineer, covering this quadrangle. The report was submitted 4 August, 1948. Filed in Div. Photogrammetry General Files.

28. DELINEATION:

Photographs 16220, 16221, 16222, 16225, 16226 and 16227 were used to delineate this quadrangle. These photographs were of good scale and very clear. The shoreline and detail adjacent to the shoreline was traced from the photographic reductions of the 1:10,000 scale Shoreline Survey previously compiled in this office.

The area from Gales Creek east along the shoreline to quadrangle limits was not traced from the 1: 10,000 scale Shoreline Manuscript reduction due to error discovered in the 1: 10,000 scale radial plot. This area was delineated from the 1: 20,000 photographs and the Shoreline Manuscript was corrected accordingly.

The spoil along the Intracoastal Waterway, Latitude 34° 42' Longitude 76° 58' 45" was found to be in error on the 1: 10,000 Shoreline Manuscript and was corrected to agree with the 1:20,000 Topographic Manuscript.

29. SUPPLEMENTAL DATA:

Carteret County Township Map was used for showing the township line between Morehead Township and White Oak Township.

30. MEAN HIGH-WATER LINE:

See Descriptive Report for Shoreline Survey.

31. LOW-WATER AND SHOAL LINES:

See Descriptive Report for Shoreline Survey.

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

See Descriptive Report for Shoreline Survey.

} attached

33. WHARVES AND SHORELINE STRUCTURES:

See Descriptive Report for Shoreline Survey.

34. LANDMARKS AND AIDS TO NAVIGATION:

See Descriptive Report for Shoreline Survey. (attached)

35. HYDROGRAPHIC CONTROL:

See Descriptive Report for Shoreline Survey (attached)

36. LANDING FIELDS AND AERONAUTICAL AIDS:

None.

37. CONTOURS:

Contours were delineated from 1: 20,000 scale field prints 16220 and 16221. No difficulties were encountered in the delineation of contours from these photographs with the following exception: A junction of contours was not completed on the field photographs at the northeast corner of the quadrangle. This oversight is being brought to the attention of the field editor. Corrected by field editor

38. POLITICAL BOUNDARIES:

All political boundaries have been delineated on the map manuscript.

39. GEOGRAPHIC NAMES:

All Geographic Names have been applied to the map manuscript. List of approved names attached.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

None available for comparison.

45. COMPARISON WITH NAUTICAL CHARTS:

See Descriptive Report for Shoreline Survey.

Respectfully submitted,
Webber W. Dawsey
Webber W. Dawsey,
Photogrammetric Aid.

Approved and Forwarded:
Ross A. Gilmore
Ross A. Gilmore 9/22
Chief of Party.

FIELD EDIT REPORT
Quadrangle T-8742
34-37.5' - 76-52.5'/7.5'
Project Ph-5 (45)

E. R. McCarthy, Chief of Party

The field edit of this quadrangle was accomplished during the month of June, 1949 by Elgan T. Jenkins, Cartographer. All work was performed in accordance with Field Edit Instructions dated 24 August, 1945, and Supplement 1, dated 4 February, 1946. The first section of this report follows the form given in Paragraph 727-Part II-Topographic Manual. (June 1949)

51. METHODS

All features were checked visually and corrections made as necessary by planetable methods.

Most of the additions and corrections were made on the photographs and were cross referenced on the field edit sheet.

A legend describing the symbols and the colored inks used is shown on the field edit sheet and the photographs.

The field edit information is shown on one field edit sheet, one discrepancy print, one geographic name print, and several photographs.

Discrepancies, where not settled directly on the discrepancy print or photographs, are discussed in the body of this report.

52. MAP ACCURACY

The horizontal accuracy of the map compilation meets the required accuracy specifications. The distances between several points were measured and found to check closely with the plotted position.

One vertical accuracy test was specified along the western limits of the quadrangle. Due to the heavy underbrush described in item 56, area 5 of this report, all but approximately one mile of the line was deemed impracticable for testing. A similiar line was tested approximately one mile east. The test was traversed between two fly level points-using standard planetable methods - directly on the field edit sheet. The horizontal and vertical closures were negligible. The vertical closure is shown on the field edit sheet. Thirty three points on various contours were tested with the following results:

See review report

91% of points tested were in error one foot or less.
6% of points tested were in error one half a contour interval.
3% of points tested were in error more than one half but less than one contour interval.

55. EXAMINATION OF PROOF COPY

The copy of the map compilation was examined for errors by Mr. T. S. Dixon, Newport, N. C. RFD #1. Mr. Dixon has been a resident of Broad Creek Village 50 years and is very familiar with the area of this quadrangle. Mr. Dixon could find no errors in the corrected copy.

Changes in Geographic names are discussed in the Supplemental Report attached.

The following items refer to the Field Inspection and Compilation Reports.

6. WOODLAND COVER

Many brush areas have been reclassified on the field edit sheet. Most of these areas are now trees due to the fast growth of young pines. The growth is such that some young pines that were brush at the time of field inspection are now definitely in the tree classification.

8. OFFSHORE FEATURES

(See Item 28 Compilation Report)

Wind is the controlling factor of the tide in Bogue Sound since the narrow inlet and shoal water limit the effect of the periodic tide. The MHW line is somewhat seasonal being higher in the summer with prevailing southerly winds, and lower in the winter with prevailing northerly winds. Where there is no vegetation, the spoil areas are subject to change particularly with a high storm tide. The general effect (in this locality) is to equalize the heights at about MHW. See Photos 16158, 16159, 16160.

In the Field Edit Designation of Buildings, where #1 is used- read class I, for #2 - read class II. Disregard BTH

The marsh islands, shown by Field Inspector as "Grass" on Photo 16137, were correctly interpreted by the compiler.

9. LANDMARKS AND AIDS

There are no features within the limits of this quadrangle suitable for landmarks.

According to local information, light #33 has not been rebuilt since February 1946. A sextant fix verified the plotted position. (See discrepancy print)

12. OTHER INTERIOR FEATURES

All roads were classified in accordance with Paragraph 544l- Part II- Topographic Manual (June 1949).

Several trails were delineated on the photographs during field edit. These trails should be shown as they are used, and maintained to some extent by the National Forest Service.

35. HYDROGRAPHIC CONTROL

Hydrographic signal sites #4201 and 4205 have been destroyed.

56. PHOTOGRAPHIC TONES AND SWAMP LIMITS

In areas 1 to 5 inclusive shown on photographs 16158 and 16159, photographic tones are explained as follows:

In area 1 (Photo 16158), the darker tone is a dense growth of brush over an area where the trees had been destroyed by fire. This area is now grown up in young pine and underbrush that may be better classified as woodland (trees).

In areas 2 (Photo 16158 and 4 (Photo 16159), the gray tone of the swamp is caused by the gums and cypress trees while the darker more bushy trees are pines that, as a rule, are not found in swamps.

In area 3 (Photo 16159) the intermittent pond area is composed of water oaks, gums, and pines and should be shown as swamp.

In area 5 (Photo 16159) the dark tones are depressed areas that are seasonally inundated. These areas are not swamps. In an area, such as this, the grayish tone is caused by a dense underbrush of gums, water oaks, briars, and reeds interspersed with many pines. This area and similar areas are almost inaccessable and should always be shown as trees, not brush.

The areas that are considered swamps have been delineated as such on the photographs.

Respectfully submitted:
30 June, 1949

Elgan T. Jenkins
Elgan T. Jenkins by Joseph K. Wilson
Cartographer,

Approved:
6 July, 1949

E. R. McCarthy
E. R. McCarthy
Chief of Party

SUPPLEMENTAL REPORT
GEOGRAPHIC NAMES
PROJECT PH-5(45)
TO ACCOMPANY FIELD EDIT REPORT
QUADRANGLE T-8742

DISCREPANCIES ON FORM M 234:

CREEK PONDS - This name was not verified by the field editor, but further and wider investigation subsequent to the Field Edit substantiated the name, and it is recommended that it be charted. This is a locality name, not descriptive of the feature.

NAMES IN DISPUTE (FIELD):

Names were checked during and subsequent to the Field Edit, and the following changes recommended, which changes were made after full consideration had been given to both the original name data and the Field Edit data, and a special field examination made to settle conflicting information.

SNAKE ISLAND - This name, known by older people and chart users, is dying out. LONG ISLAND is more acceptable locally now, and is recommended.

LONG ISLAND (34-40.7/77-00.0) is no longer applicable to this feature and it is recommended it be deleted.

McGINNIS POINT.- This name is becoming obsolete. Deleting is recommended.

CAT ISLAND - (34-41.1/76-57.1) The island to which this name was originally applied is better known locally as WOOD ISLAND. The name CAT ISLAND is locally applied to a small island to the southwest. (See CAT ISLAND under NEW NAMES, FIELD). WOOD ISLAND is recommended.

WOOD ISLAND - (34-40.7/76-59.6) This feature is better known locally as PINEY ISLAND and the name is recommended.

NEW NAMES (FIELD):

CAT ISLAND - This name as applied to a small island just north of YELLOW HILL LANDING is recommended.

Submitted:
8 July 1949

A. J. Fraicht
Cartographer

Approved:
8 July 1949

E. R. McCarthy
Chief of Party

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. ~~T-8742~~ Office No. T-8742

LOCALITY

State North Carolina

General locality Carteret County

Locality West of Morehead City

194 X 9

CHIEF OF PARTY

~~Lieut. Comdr.~~ Riley J. Sipe

~~Lieut. Comdr.~~ George E. Morris, Jr.

LIBRARY & ARCHIVES

DATE

B-1870-1 (1)

Form T-1

DATA RECORD

T-8742

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

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

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

Instructions dated (II III): Undated

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

Completed survey received in office: 8/31/49

Reported to Nautical Chart Section: 9/7/49

Reviewed: May 5, 1950 Partially Applied to chart No. 1234 833 Date: 6-8-49 4-14-48 12-15-47

Redrafting Completed:

Registered: 6/14/51 Published: ———

Compilation Scale: 1:10,000 Published Scale: ———

Scale Factor (III): None

Geographic Datum (III): N.A. 1927 Datum Plane (III): Mean High Water

Reference Station (III): Gale, 1933

Lat.: 34° 43' 17.520"(539.9m) Long.: 76° 54' 40.474"(1029.8m) Adjusted
~~Unadjusted~~

State Plane Coordinates (VI): North Carolina State Grid

X = Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
16158	7 April '46	1055	1:10,000	± 1.75 feet
16159	"	1055	1:10,000	"
16160	"	1056	1:10,000	"
16134	"	0954	1:10,000	± 1.5 feet
16135	"	0956	1:10,000	"
16136	"	0956	1:10,000	"
16137	"	0957	1:10,000	"

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

Mean Range: 2.2 feet Spring Range: 2.6 feet

Camera: (Kind or source) U.S. C. & G. Survey 9-lens, 8.24" focal length

Field Inspection by: E.L. Williams, M.A. Stewart, R.A. Horn date: Dec.'46-July'47

Field Edit by: E.T. Jenkins (for topographic quadrangle) date: June 1949

Date of Mean High-Water Line Location (III): December 1946

Projection and Grids ruled by (III) T.L.J. Washington Office date: 8 July 1947

" " " checked by: " " date: 8 July 1947

Control plotted by: I.I. Saperstein date: 18 Aug. 1947

Control checked by: W.W. Dawsey date: 18 Aug. 1947

Radial Plot by: M.M. Slavney date: 5 Sept. 1947

Detailed by: W.H. Shearouse, W.W. Dawsey date: 5 Sept.-15 Oct.'47

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

~~Elevations on Field Edit Sheet~~
checked by: Shoreline Survey ~~date:~~

STATISTICS (III)

Land Area (Sq. Statute Miles): 4.8

Shoreline (More than 200 meters to opposite shore): 32.6 Stat.Miles

Shoreline (Less than 200 meters to opposite shore): 3.5 Stat. Miles

Number of Recoverable Topographic Stations established: 18

Number of Temporary Hydrographic Stations located by radial plot: 5

Leveling (to control contours) - miles: None (shoreline quadrangle)

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

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

Remarks:

COMPILATION REPORT
TO ACCOMPANY
QUADRANGLE T-8742
SHORELINE SURVEY

26 AND 27. CONTROL AND RADIAL PLOT:

This is the subject of a special report to be submitted to the Washington Office by Milton M. Slavney, Photogrammetric Engineer.

28. DELINEATION:

The $\frac{N}{2}$ of this sheet was delineated by William H. Shearouse and the $\frac{S}{2}$ was delineated by Webber W. Dawsey.

Photographs 16158, 16159, 16160, 16161, 16134, and 16135 were used to delineate the north half of the quadrangle. They were of fairly good scale, clear and provided good coverage of the area. Photographs 16134, 16135, 16136 and 16137 were used to delineate the south half of the quadrangle. These photographs were of good scale clear and provided adequate coverage of the area.

Field inspection of the shoreline was adequate; however, the inspection of the area required for a shoreline survey, was rather skimpy. The compilers feel that the vegetation has been interpreted and symbolized with reasonable accuracy.

The spoil banks on the south side of the dredged channel of the Intracoastal Waterway were not adequately inspected. Also, there is conflict between field notes. Photograph 16158 indicates certain spoil areas to be bare at M.H.W. whereas photograph 16159 indicates similar areas to be awash at M.H.W. The mean high water line, the mean low water line and the approximate shoal limits have been compiled with the use of the stereoscope and after discussion with experienced personnel. These lines are believed to be reasonably accurate.

Cleared up by field editor

Several islands appearing on the south half of the quadrangle, (photograph 16137) were labelled "grass" by the field inspector. These islands are shown on nautical chart No. 833 as marsh islands and have been so drafted. Experienced personnel agree that this is correct.

shown as marsh by field editor

29. SUPPLEMENTAL DATA:

None used.

30. MEAN HIGH WATER LINE:

The mean high-water line on the ocean side of Bogue Banks was delineated as shown by the short red dashes on the field inspection photographs. In some instances this did not agree with the measured distance given on the Description of Recoverable Topographic Station cards (Form 524). Reference is hereby made to item 7 of the Field Inspection Report.

Inspection of mean high-water line was adequate elsewhere and delineated as inspected except in the instance of the spoil banks discussed under DELINEATION.

31. LOW-WATER AND SHOAL LINES:

Low water lines have been delineated where indicated by the field inspector and where obvious on the photographs. A dashed line has been placed around the shoal areas indicating their approximate limits.

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

A rock charted on nautical chart No. 833 at approximate Latitude 34° 41.6', Longitude 76° 53.3' was not noted by the field inspector. It is discussed later in this report under COMPARISON WITH NAUTICAL CHARTS.

Several net racks and a few small buildings are offshore and have been delineated and labelled on the map manuscript.

33. WHARVES AND SHORELINE STRUCTURES:

These were indicated by the field man or were obvious on the photographs and have been delineated accordingly.

34. LANDMARKS AND AIDS TO NAVIGATION:

No landmarks were recovered to be charted.

Form 567 is being submitted with the report for the deletion of 2 charted landmarks.

The positions of the nonfloating aids to navigation were established by radial "cuts" in the case of the lights along the Intracoastal Waterway as their images could be clearly seen on the photographs. The positions of the daybeacons were determined by theodolite cuts furnished by the field party. Reference is hereby made to Item 11 of the Field Inspection Report. The positions of these aids to navigation have been scaled and recorded on Form 567 which is submitted with this report.

35. HYDROGRAPHIC CONTROL:

Five (5) hydrographic signal sites were identified by the field inspector and their positions established on the map manuscript by radial intersections.

In addition 15 recoverable topographic stations were established for the use of the hydrographer.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

None

37. CONTOURS:

No contours required on this shoreline sheet. However, attention is called to item 6 CONTOURS AND DRAINAGE of the Field Inspection Report in which it is stated "Contouring was done on the 1:10,000 scale photographs in the Bogue Bank area". This statement was found to be incorrect for this quadrangle as the contouring of the Bogue Banks was done on 1:20,000 scale photographs 16225, 16226 and 16227.

38. POLITICAL BOUNDARIES:

As of 21 October 1947 no data on political boundaries have been received in this office.

39. GEOGRAPHIC NAMES:

~~No geographic name report has been received in the Tampa Office as of 21 October, 1947.~~ Geographic names have been applied to the map manuscript.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

None available for comparison.

45. COMPARISON WITH NAUTICAL CHART:

Comparison was made with nautical chart No. 1234 (1:80,000 scale, dated 20 January 1947) and Intracoastal Waterway Chart No. 833 (Scale 1:40,000, dated 9 June 1947) indicate very good agreement. The large scale difference makes detailed comparison impractical. However, no extensive visible differences in the shoreline are apparent.

In NOTES TO THE COMPILER submitted by the field inspector, it is stated that the "FLOAT charted at 34° 41' - 76° 54' on chart No. 1234 has been deleted". On the chart section submitted the deletion was not made and has been done by the compiler.

No mention was made of the HOUSE appearing on chart No. 833 at approximate Latitude 34° 41.6', Longitude 76° 53.4'. A thorough search for the house has been made on photograph 16134 and the image could not be found. It is recommended that the house be deleted from chart No. 833.

The rock, charted about 100 meters east of the HOUSE was not mentioned by the field inspector and it is recommended that the Hydrographer make an investigation to verify its existence.

The map manuscript should supersede the charted information.

Respectfully submitted,

William H. Shearouse

William H. Shearouse,
Cartographer.

Webber W. Dawsey

Webber W. Dawsey,
Photogrammetric Aid.

Approved and forwarded:

George E. Morris, Jr.

George E. Morris, Jr.
Chief of Party.

Form 567
April 1945

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, North Carolina July 30, 1947

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

The positions given have been checked after listing by William H. Shearouse

William H. Shearouse

Riley J. Sipe
Riley J. Sipe
GEV
Chief of Party.

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D.M. METERS	LONGITUDE ° ′	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
BOGUE SOUND	DAYBEACON # 19		34 43	541	76 52.5	1370	NA 1927	Rad.Plot T-8742	1947				833 1234
	BOGUE SOUND DAYBEACON # 20		34 43	470	76 53	538	"	"	"				"
	" " LIGHT # 21		34 43	263	76 53	1358	"	"	"				"
	" " DAYBEACON # 22		34 43	192	76 54	551	"	"	"				"
	" " " # 23		34 43	7	76 54	1233	"	"	"				"
	" " " # 24		34 42	1789	76 55	384	"	"	"				"
	" " LIGHT # 25		34 42	1616 ~~833~~	76 55	1029	"	"	"				"
	" " DAYBEACON # 26		34 42	1444	76 56	203	"	"	"				"
	" " " # 27		34 42	1200	76 56	760	"	"	"				"
	" " " # 28		34 42	1000	76 57	40	"	"	"				"
	" " LIGHT # 29		34 42	713	76 57	711	"	"	"				"
	" " DAYBEACON # 30		34 42	613	76 57	1226	"	"	"				"
	" " " # 31		34 42	297	76 58	438	"	"	"				"
	" " " # 32		34 42	114	76 58	1169	"	"	"				"

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.

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED / ~~TO BE DELETED~~ } STRIKE OUT ONE

Morehead City, North Carolina July 30, 1947

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

The positions given have been checked after listing by William H. Shearouse

William H. Shearouse

Riley J. Sipe
R. J. Sipe
GEY
Chief of Party.

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D.M. METERS	LONGITUDE ° ′	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	BOGUE SOUND LIGHT # 33		34 41	1676	76 59	325	NA 1927	Rad. Plot T-8742	1947				833 1234
	" " DAYBEACON # 34		34 41	1406	76 59	966	"	"	"				"
	" " " # 35		34 41	1032	77 00	1	"	"	"				"
*	" " " # 36		34 41	803	77 00	560	"	"	"				"
*	" " LIGHT # 37		34 41	1806	77 00	1144	"	"	"				"

* West of Project Limits

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.

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

~~NONFLOATING AIDS OR~~ LANDMARKS FOR CHARTS

~~TO BE CHARTED~~
TO BE DELETED } STRIKE OUT ONE

Morehead City, N. C. 26 Dec. 19 46

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. E.L.Williams, Engr. Aid Riley J. Sipe, Chief of P.

The positions given have been checked after listing by _____

Chief of Party.

STATE North Carolina

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LAT. D.M. METERS	POSITION LONGITUDE ° ′	LONG. D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		Salters Pass											
SPIRE	Salters Pass Church	Church Spire	34 41.3		76 53.2		NA 1927	Tri T-8742	1915		x	x	833 1234
	Church burned down												
SPIRE	Unknown		34 45.2		76 54.3		NA 1927	Unknown			x	x	1234
	Church moved to new location												

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 sho

GEOGRAPHIC NAMES

Survey No. T-8742

7½' quadrangle

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	
North Carolina	✓								USGB	1
Carteret County	✓									2
Morehead Township		✓								3
White Oak Township		✓								4
Atlantic Ocean	✓									5
State Highway No. 24	✓									6
Intracoastal Waterway	✓								USGB	7
										8
Bogue Sound	✓									9
Bogue Banks	✓									10
Dog Islands	✓									11
Salter Path	✓		(village)							12
Rock Point	✓									13
Rices Path	✓		(locality)							14
Yellow Hill Landing	✓									15
McGinnis Point										16
Creek Ponds (locality)			(name reported by Wraight, but if they exist at all these must be very small)							17
Wood Island	✓									18
Long Island	✓		(only a small section here)							19
Snake Island										20
Gull Island			Name deleted by field editor							21
Cat Island	✓									22
Lovett Island	✓									23
Ocean	✓									24
Sanders Creek	✓		Decis. BGN (~~referred to USBGN~~) (~~conflict with form Saunders Creek~~)							25
East Prong	✓		(of Sanders Creek)							26
Broad Creek	✓									27

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GEOGRAPHIC NAMES

Survey No. T-8742

2 Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
West Prong			(of Broad Creek)							1
East Prong			(" ")							2
Wolf Branch										3
Sandy Branch										4
Hannahs Branch										5
Patsy Pond										6
Broad Creek			(village)							7
Nine Foot Road										8
Gales Creek										9
East Prong			(of Gales Creek)							10
Hibbs Road										11
Soundview Church										12
Jumping Run			(only a small section here: ~~has been referred to USBGN for conflict with Sankeys Laurel~~) Decis. BGN).							13
Piney Island										14
Croatan National Forest										15
										16
				Names underlined in red are approved,						17
				on basis of Wraight's report for						18
				this area. Subject to final check						19
				by Field Edit. 3/22/49 L. Heck						20
				Final check & approval						21
				5-3-50 a.j.w.						22
										23
										24
										25
										26
										27

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Review Report T-8742
Topographic and Shoreline Maps
May 5, 1950

62. Comparison with Registered Topographic Surveys:

1110	1867	1:20,000
1215	1871	1:20,000
4295	1927	1:20,000
5047 supp.	1933	1:20,000
5048 supp.	1933	1:20,000
6002	1933	1:20,000

T-8742 supersedes these surveys for nautical charting.

63. Comparison with Maps of other Agencies: None

64. Comparison with Contemporary Hydrographic Surveys: None

65. Comparison with Nautical Charts:

833	1946	1:40,000
1234	1940	1:80,000

There are no significant differences between T-8742 and the charts.

66. Adequacy of Results and Future Surveys:

These maps comply with the project instructions and Bureau Policy. There are no inadequacies. They comply with the National Standards of Accuracy.

67. Accuracy Test (Vertical):

Refer to item 52 of the field edit report. The vertical accuracy test as run by the field editor had to be rejected with the exception of 13 test points. The line chosen by the field editor was along a trail that had been run by the field inspector in his original contouring. This gave no check against the original contouring, but merely substantiated the original field man's elevations.

The 13 points evaluated tested 92% within 1/2 contour interval or better.

68. Contours:

A 5, 10 & 15 foot and where necessary a 20 & 25 foot carrying contour was used along the Bogue Banks to clarify the map manuscript. This method depicts a truer picture of the contours.

69. Swamp:

Refer to item 56, field edit report. Some swamp areas have been shown. The majority of the areas in item 56 have not been shown as they disagreed with the contours and would represent a very confusing picture of the terrain.

70. Hydrographic Signals:

The following signals have not been listed elsewhere in the descriptive report:

4202 -- Church Steeple
4203 -- NE end of bridge rail
4204 -- N gable red roofed house

Reviewed by:

B. Thomas Hynson
B. Thomas Hynson
May 5, 1950

Approved by:

A. V. Griffith
Chief, Review Section
Division of Photogrammetry

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

O. S. Reading
Chief, Div. of Photogrammetry

W. M. Scaife
Chief, Div. Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-8742

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
12/15/47	833	Richardson/JF	Before ~~After~~ Verification and Review Examined for changes in aids, rocks piers & bridges.
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.