

8743

Diag. Cht. No. 1234-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC SHORELINE

Peltiet Quadrangle

Field No. PH-5 (45) & PH-5 (45 B) Office No. T-8743

LOCALITY

State NORTH CAROLINA

General locality CARTERET COUNTY

Locality EAST END OF BOGUE SOUND

1949

CHIEF OF PARTY

R.J.Sipe, Chief of Field Party

R.A.Gilmore, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE August 9, 1951

B-1870-1 (1)

8743

DATA RECORD

T- 8743

Quadrangle (II):

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. R.A. Gilmore

Instructions dated (II III): Undated

Supplement #1 11 Dec., 1946

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

Completed survey received in office: 9/26/49

Reported to Nautical Chart Section: 10/3/49

Reviewed: 5/4/50

Partially

Applied to chart No.

1234
833

Date:

6/8/49
4/14/48
12/15/47

Redrafting Completed:

Registered: 6/13/50

Published:

Compilation Scale: 1: 20,000

Published Scale: 1:24000

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

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

Reference Station (III): ISLE, 1927

Lat.: 34° 42' 24."614(758.5)m

Long.: 76° 46' 28."831 (733.7m)

Adjusted

Unadjusted

State Plane Coordinates (VI):

North Carolina State Grid

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
16218	4-7-46	12:17	1:20,000	Reference Shoreline
16219	"	12:18	"	Survey Descriptive
16220	"	12:19	"	Report.
16227	4-11-46	10:01	"	See Field Inspection Report
16228	"	10:02	"	

Tide from (III): Reference Shoreline Survey Descriptive Report.

Mean Range: " " Spring Range: " "

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

Field Inspection by: J.S. Howell, and R.A. Horn date: 12-9-46 to
4-30-47

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

Date of Mean High-Water Line Location (III): 12-9-46 to 2/13/47

Projection and Grids ruled by (III) H.K. Wash. Office date: 11-18-47

" " " checked by: T.L.J. " " date: 11-18-47

Control plotted by: R.A. Reece date: 23 Dec. 1947

Control checked by: R. Dossett date: 6 Jan. 1948

Radial Plot by: E.C. Andrews date: 8 Apr. 1948

Detailed by: R. Dossett date: May-June, 1948

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

Map Manuscript
Elevations on Field Edit Sheet
checked by: J.A. Giles date: Sept. 1948

STATISTICS (III)

Land Area (Sq. Statute Miles): 17.4

Shoreline (More than 200 meters to opposite shore): 23

Shoreline (Less than 200 meters to opposite shore): 6

Number of Recoverable Topographic Stations established: 11

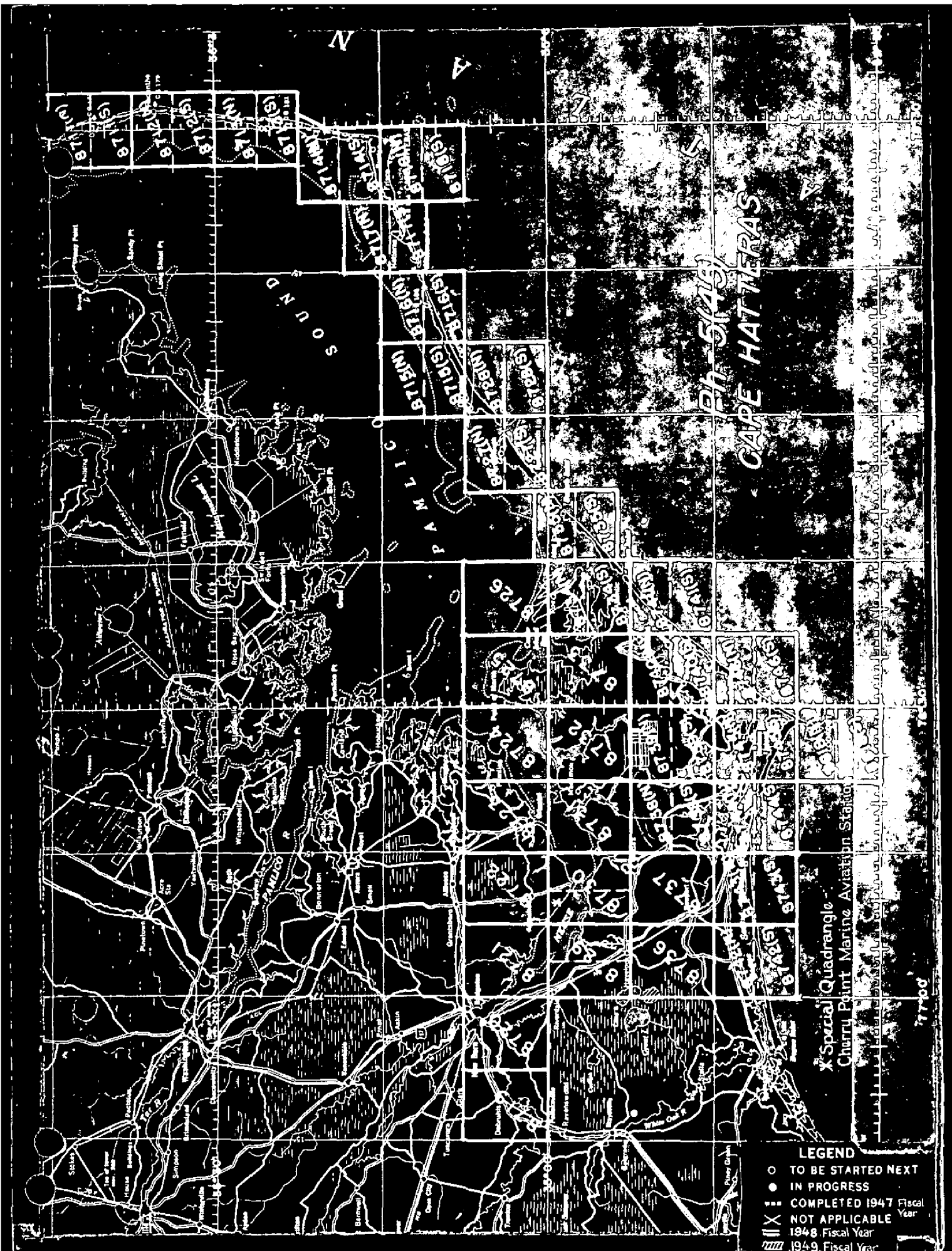
Number of Temporary Hydrographic Stations located by radial plot:
Reference Shoreline Survey Descriptive Report.

Leveling (to control contours) - miles: 22.9

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-5449
CAPE HATTERAS

X Special Quadrangle
Cherry Point Marine Aviation Station

LEGEND

- TO BE STARTED NEXT
- IN PROGRESS
- - - COMPLETED 1947 Fiscal Year
- 1948 Fiscal Year
- ▨ 1949 Fiscal Year

Summary Report to Accompany T-3743

T-3743 is one of a series of eight quadrangles in Project Ph-5(h5) which are usually composed of three separate map manuscripts; i.e., one standard 7 1/2' 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 7 1/2' in longitude. T-3743, however, has only one shoreline manuscript since such a minute portion would have fallen on the S/2 that it was combined with the N/2. Since there is only one shoreline manuscript, there will be no distinction made between N/2 and S/2.

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

The several mapping operations were:

- (a) Mine-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 along-shore zone approximately 200 meters wide was traced directly to the 1:20,000 scale topographic compilation.
- (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-3743 will be published and distributed by the Geological Survey at a scale of 1:20,000 as a standard topographic quadrangle in accordance with an agreement of March 25, 1947.

Data pertaining to T-3743 will be filed and may be obtained as follows:

- (a) Filed in the Division of Photogrammetry

1. Two map manuscripts, T-3743 scale 1:20,000, T-3743 scale 1:10,000; field edit and final review corrections applied.
2. Field edit sheet.

(1) Filed in the Coast and Geodetic Survey Archives

1. Combined Descriptive Report
2. A cloth-backed lithographic print of T-3743 at 1:20,000 scale.
3. A 1:10,000 scale cloth-backed lithographic print of shoreline map T-3743.
4. When T-3743 is published, a cloth-backed copy of the published map, at a scale of 1:20,000 will be registered.

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FIELD INSPECTION REPORT

T-8743 (34-37.5/76-45/7.5')

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.

<u>Name & Title.</u>	<u>Field Work</u>	<u>Dates</u>
John S. Howell, Topographic Engineer	Horizontal Control Recovery, Shoreline Inspection.	9 Dec 46 - 13 Feb 47
Robert A. Horn, Photogrammetrist	Vertical Control Recovery, Contours, Interior Inspection	6 March 47 - 26 June 47

1. Description of the Area.

The land area embraced by the quadrangle lies about one mile 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.

Only in the extreme eastern portion of the quadrangle does Bogue Banks have any semblance of clear area with the remaining portion of these Banks being very thickly covered with trees and tangled underbrush. The woods and underbrush have grown up covering high sand dunes thus making extremely difficult country to work.

The cleared and populated end of Bogue Banks is a portion of Atlantic Beach, an important summer resort of North Carolina, which is in the process of rapid expansion.

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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. Even though the land is relatively high it contains much swampy land.

Along Bogue Sound there are many small farms and numerous summer homes. Here too there is considerable new construction in progress.

The quadrangle is cut by two main roads; U.S. Highway 70 that extends northwest from Morehead City, and Highway-North Carolina # 24 which parallels Bogue Sound. The Atlantic and East Carolina Railroad crosses the quadrangle parallel to U.S. Highway # 70.

2. Completeness of Field Inspection.

It is believed that the field inspection is complete and adequate. As mentioned before there is much new construction in progress along the Bogue Sound and Atlantic Ocean shoreline 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.

Thirty two horizontal control stations were searched for or recovered; of these nine were identified on the photographs for control of the radial plot.

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. Eleven Bench Marks were recovered; seven Bench Marks were searched for but not recovered. Form # 685 is submitted on the eighteen marks involved.

Forty fly-level elevations were established for contouring by running four level lines over 22.9 miles. The greatest error of closure was 0.6 ft. Adjustments were prorated over the entire line in which they occurred.

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. The prescribed

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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.

Also on the Banks, a high narrow ridge parallels the shoreline. For clarity, and the elimination of excessive shift, a 5' contour along the base and 20' or 25' top contours were drawn to show this feature. *See review report*

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 mainly by seepage. There is only one semi-pronounced drain in this section of the quadrangle, running east along the northern limits of the Banks. The remainder of the rainfall, which lies in the many pockets or depressions, is eliminated by seepage.

7. Mean High Water Line.

The mean high water line was inspected by skiff, by walking the shoreline, and by observation from points of vantage. The Atlantic Ocean beach is entirely a solid shoreline while the Bogue Sound shoreline contains both solid and apparent shoreline.

The tide in Bogue Sound is variable and fluxuates with the wind. A small variation in the water level exposes or floods much of the flats on the north side of Bogue Banks. This effect is present on the south shore of the mainland but not in such a great degree.

(The average tide range along Atlantic Beach is about 2.5 feet while the)
average tide range in Bogue Sound is about 2 feet.

8. Low Water Line.

In Bogue Sound the low water line was found to be extremely variable from day to day due to the nature of the tide as mentioned above, and no definite low water line was determined. An approximate low water line was determined by observation and sketched on the photograph

No low water line was determined along the Atlantic Ocean beach due to the roughness of the surf and the stage of the tide at the time of shoreline inspection. *LWL added. See item 28 Compilation Report.*

9. Wharves and Shoreline Structures.

All wharves and shoreline structures are discernable on the photographs and no other comment is necessary.

10. Detail Off-shore from Mean High Water Line.

Detail noted off-shore from mean high water line consisted of spoil banks, a house on piles, and fixed aids to navigation. All these objects were located on the photographs.

11. Landmarks and Aids to Navigation.

All existing landmarks have been pricked and labeled on the photographs and their descriptions submitted on Form 567.

attached

All fixed aids to navigation were located by pricking directly on the photographs or by graphic triangulation.

12. Hydrographic Control.

In accordance with the project instructions the existing horizontal control was supplemented by permanently marked Topographic Stations in order to have horizontal control at not more than one mile intervals. Natural objects were selected in lieu of setting disks wherever possible.

13. Aeronautical Aids and Landing Fields.

There is one small airport approximately seven miles northwest of Morehead City on U.S. highway # 70. There are no other landing fields or aeronautical aids within the limits of this quadrangle.

14. Road Classification.

All roads have been classified.

15. Bridges.

There are no bridges over navigable waters within this quadrangle.

16. Buildings and Structures.

Adequately covered on photographs.

17. Boundaries.

One boundary is delineated on the photograph, that of the Croatan National Forest. It is located in the northwestern area of this quadrangle. A legal description and detailed information on this boundary is covered in a special report by Mr. A. J. Wraight, Topographic Engineer.

Div Photogrammetry General Files.

18. Geographic Names.

Geographic Names will be the subject of a special report by Mr. A. J. Wright, Topographic Engineer.

*Filed in Geographic Names
Section, Div. Charts.*

John S. Howell
John. S. Howell ^{CEV}
Topographic Engineer

Robert A. Horn
Robert A. Horn
Photogrammetrist

Approved:

Riley J. Sipe
Riley J. Sipe
Chief of Party

MAP T. 8743

PROJECT NO. Ph-5(45)

SCALE OF MAP 1: 20,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR LONGITUDE OR X-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
WALLACE, 1933	G.P.s. P.499	N.A. 1927	34° 43' 20.074"				618.6 (1230.3)		
			76 45 31.530				802.2 (724.4)		
			34 43 27.805				856.8 (992.1)		
PELTIER, 1933	"	"	76 46 26.371				671.0 (855.6)		
	"	"	34 42 24.614				758.5 (1090.4)		
ISLE, 1927	P.490	"	76 46 28.831				733.7 (793.2)		
PILE, 1927	"	"	34 42 15.837				488.0 (1360.9)		Destroyed
	"	"	76 47 35.432				901.7 (625.3)		
MOREHEAD CITY	"	"	34 43 47.237				1455.6 (393.3)		
VILLA-HOTEL WATER TANK, 1927	P.604	"	76 47 12.464				317.1 (1209.4)		
SPOONERS, 1915	S.P.192 P.32	"	34 43 31.101				958.4 (890.5)		
			76 48 26.828				682.6 (844.0)		
HOOP, 1927	G.P.s. P.490	"	34 42 15.841				488.1 (1360.8)		
	"	"	76 49 20.657				525.7 (1001.3)		
JUMPING RUN, 1854	P.497	"	34 43 38.745				1193.9 (655.0)		Destroyed
CAMP GLENN WATER TANK, 1933	" P.507	"	76 51 48.453				1232.7 (293.8)		
			34 43 27.945				861.1 (987.8)		
			76 45 25.516				649.2 (877.4)		
CAMP GLENN STEEL TOWER, 1927	" P.490	"	34 43 23.359				719.8 (1129.1)		Destroyed
			76 45 21.520				547.5 (979.1)		
	"	"	34 43 27.946				861.2 (987.7)		
CAR, 1927	P.504	"	76 45 25.515				649.2 (877.4)		
BOGUM SOUND BM #1, 1933	" P.507	"	34 43 12.748				392.8 (1456.1)		Destroyed
			76 45 16.691				424.7 (1102.0)		

1 FT. = 3048006 METER

COMPUTED BY: W.H. Shearouse

DATE 3 April 1947

CHECKED BY: R.R. Wagner

DATE 20 June 1947

M-2368-12

MAP T-8743

PROJECT N0Ph-5(45)

SCALE OF MAP 1:20,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
PILE 2, 1933	G.Ps. P.500	N.A. 1927	34 42 15.223 76 47 35.077				469.1 (1379.8) 892.7 (634.2)			
BULLOCK 1890	" P.499	"	34 42 16.381 76 47 35.337	/	/	/	504.8 (1344.1) 899.3 (627.6)	/	Lost	
WHEELER CITY	S.P. 192	"	34 43 32.296	/	/	/	995.8 (-853.9)	/	Destroyed	
PILE ON DOME 1927	P.33	"	76 47 07.592	/	/	/	193.2 (1339.4)	/	Destroyed	
SHATED BIDDG. 1931	G.Ps. P.506	"	34 43 27.094 76 47 17.363	/	/	/	834.9 (1014.0) 441.8 (1084.8)	/	Destroyed	
BELLS DERRICK 1933	S.P.192 P.32	"	34 43 31.175 76 48 25.548				960.7 (888.2) 650.0 (876.5)			
SPOONER ECC., 1931	G.Ps. P.499	"	34 43 30.324 76 48 19.628				934.4 (914.5) 499.4 (1027.1)		Lost	
BOJIE SOUND BN. #3. 1933	G.Ps. P.507	"	34 43 19.433 76 48 11.556				598.8 (1250.1) 294.0 (1232.6)		Destroyed	
CATHOLIC BOYS CAMP-WATER TANK 1933	G.Ps. P.508	"	34 43 45.931 76 50 30.463				1415.3 (433.6) 775.0 (751.5)			
JUMPING RUN ECC., 1908	G.Ps. P.498	"	34 43 39.194 76 51 48.162				1207.8 (641.1) 1225.3 (301.2)			
JUMPING RUN ECC., 1927	G.Ps. P.491	"	34 43 38.728 76 51 47.614				1193.4 (655.5) 1211.4 (315.1)			
DRUM, 1927	G.Ps. P.490		34 42 34.800 76 45 05.562				1072.4 (776.5) 141.5 (1385.3)			

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

DATE 3 April 1947

CHECKED BY: R. R. Wagner

DATE 20 June 1947

M. 2388-13

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COMPILATION REPORT
TO ACCOMPANY
QUADRANGLE T-8743
TOPOGRAPHIC SURVEY

26 AND 27. CONTROL AND RADIAL PLOT:

These are the subject of a special report submitted to the Washington Office 20 May 1948 by E.C. Andrews and R.J. Pate. *Filed in Div. Photogrammetry General Files.*

A minor discrepancy between the Main Radial plot of the 1: 10,000 Shoreline Survey and Main Radial plot of the 1:20,000 Topographic Survey is discussed in Main Radial Plot Report No. 6 of Ph-5(45). This report was submitted to the Washington Office 4 August, 1948 by M.M. Slavney.

28. DELINEATION:

Except for a small area of approximately five square miles of inshore area in the northwest corner of the quadrangle, this 1: 20,000 scale compilation is a duplication of the Shoreline Survey Map Manuscript. The details were traced directly from a photographic reduction of the 1: 10,000 scale compilation.

Details in the area mentioned under combined items 26 and 27 have been corrected on both the 1: 10,000 and 1: 20,000 manuscripts.

29 TO 36 INCLUSIVE:

Reference Shoreline Survey Compilation Report. *(attached)*

37. CONTOURS:

All contours were traced directly from the photographic reduction of the 1: 10,000 manuscript except for the western one and a half minutes of the quadrangle. In this area the contours were delineated from the 1: 20,000 field photographs.

38. POLITICAL BOUNDARIES:

All political boundaries have been shown on the map manuscript.

39. GEOGRAPHIC NAMES:

Geographic names shown on the name sheets received from the Washington Office have been applied to the map manuscript. *Approved list attached.*

44 AND 45 INCLUSIVE:

Reference Shoreline Survey Compilation Report.

Approved and Forwarded:

Ross A. Gilmore
Ross A. Gilmore, Lieut. Comdr.
USC&GS, Chief of Party.

Respectfully submitted,

Rudolph Dossett
Rudolph Dossett, Cartographer (Photo.)

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FIELD EDIT REPORT
Quadrangle T-8743
34-37.5/76-45.0/07.5
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. *Div. Photogr. Office Files.* This report is written in accordance with Instructions in Paragraph 727 - Part II - Topographic Manual. (June 1949)

51. METHODS

All features were checked by visual observation supplemented as necessary by planetable methods.

Changes, except as otherwise noted, were made directly on the field edit sheet. Additions and deletions made on the field edit sheet were by planetable methods or by measurements from topographic features.

Discrepancies, where not settled directly on the field edit sheet, or photographs, are discussed in the body of this report.

A legend describing the symbols and the inks is shown on both the field edit sheet and the photograph.

Two field edit sheets were used; one topographic and one shoreline.

Six photographs show additional information. (#16161-2-3-4, 16228-9). Due to lack of space on the field edit sheet all details could not be cross referenced thereon. These details are shown on the photographs.

52. ADEQUACY OF COMPILATION

The compilation was adequate considering the extent of the field inspection. Most of the corrections shown on the field edit sheet were the results of natural and artificial changes which occurred subsequent to the date of field inspection. See item 1 of the Field Inspection Report.

Many buildings and piers should have been more clearly delineated by the Field Inspector, while many buildings were overlooked by the compiler.

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53. MAP ACCURACY

The horizontal accuracy of the map is adequate. Several planetable traverses were made in locating new details and the closure of these traverses was very good.

No vertical accuracy test was specified for this quadrangle. It is believed to comply with the vertical accuracy specifications. Numerous distributed visual observations indicate that the contour expression is satisfactory.

55. EXAMINATION OF THE PROOF COPY

The copy of the corrected map manuscript was examined for possible errors by Mr. E. W. Copeland, Box 168, Morehead City, N.C. and Mr. Fred Royal, 801 Bridges Street, Morehead City, N. C. Mr. Copeland and Mr. Royal have been residents of this area 65 years, and are well acquainted with the area covered by the map. Neither could find any errors in the corrected copy. For Geographic Names see Supplemental Report attached.

The following items refer to Compilation & Field Inspection Reports.

3. HORIZONTAL CONTROL

Forms 526 are being submitted to reconcile questions concerning the horizontal control.

5. CONTOURS AND DRAINAGE

In 34-44.5/76-49.5, clarification of the many ditches was requested. The main drainage ditches are shown on photograph 16162. The ditches that are not marked are approximately one half a meter in width and depth. These smaller ditches are more or less temporary and should not be shown.

7. SHORELINE AND ALONG SHORE FEATURES

See also Item 28, Compilation Report.

(a) The shoreline was changed on part of the north and south banks of Bogue Sound. This shoreline should be shown as the definite MHWL, rather than apparent. There is a narrow fringe of marsh along this shoreline, but its average width does not exceed four meters. ||

(b) The approximate MLWL should be deleted in Bogue Sound as a hydrographic examination will be required to determine it with any degree of accuracy. ||

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(c) Numerous new piers have been constructed along the shores of Bogue Sound. Their location and length are shown on the field edit sheet.

8. OFFSHORE FEATURES

In 34-43.3/76-47.7, the "wreck" turned out to be five discarded iron dredging pipes which are awash at MHW.

See item 32, shoreline compilation report.

9. LANDMARKS AND AIDS

During the field edit, day beacon #6 was destroyed. This was reported by the Field Editor to the Coast Guard, but, at the date of submission of T-8743, it had not been rebuilt.

All aids to navigation were checked graphically as to their proper location. With the exception of day beacon #12 and 18, their positions are correct. The planetable cuts are shown on the field edit sheet.

See Item 34, Shoreline Compilation Report.

10. BOUNDARIES, MONUMENTS AND LINES

Camp Glenn was used as a navy base during the last war, but has since been sold to the State of North Carolina. The State sold part of this land to individuals and the balance is now pending sale. The limits of Camp Glenn are indefinite and it is recommended that none be shown.

12. OTHER INTERIOR FEATURES

All roads were classified according to the latest instructions. The classification of these roads are shown on the field edit sheet. U. S. Highway #70 should be classified as Rd. 4 in T-8744 as well as T-8743.

The major swamp within the limits of this quadrangle is HULL Swamp. This swamp was delineated and submitted with the photographs of T-8737.

Copy of Application for a permit showing the proposed location of new submarine cables in sheet T-8744 is submitted. Current information (20 July) from the Carolina Telephone and Telegraph Company is that the application was approved and construction completed on

18 July. The location of the cables is correctly shown on the drawings attached to the application.

Submitted,
14 June 1949

Elgon T. Jenkins
Elgon T. Jenkins *by Joseph K. Wilson*
Cartographer

Approved:
25 July 1949

E. R. McCarthy
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-8713~~ Office No. T-8743

LOCALITY

State North Carolina

General locality Carteret County

Locality East End of Bogue Sound

194 89

CHIEF OF PARTY

~~Lt. Comdr. Riley J. Sipe~~ *Chief of Field Party*
~~Lt. Comdr. George E. Morris, Jr.~~ *Tampa*

Photogrammetric Office
LIBRARY & ARCHIVES

DATE

DATA RECORD

T-8743 $\frac{H}{2}$

Quadrangle (II): Shoreline Survey

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

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

Compilation Office: Tampa, Fla. Chief of Party: G.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: 9/26/49

Reported to Nautical Chart Section: 10/3/49

Reviewed: 5/4/50

Applied to chart No.

1234

Date:

6/8/49

4/14/48

12/15/47

833

Redrafting Completed:

Registered: 6/18/51

Published: _____

Compilation Scale: 1: 10,000

Published Scale: _____

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): M.H.W.

Reference Station (III): Isle, 1927

Lat.: 34° 42' 24" 614 (758.5) Long.: 76° 46' 28" 831 (733.7M) Adjusted
Undeleted

State Plane Coordinates (VI):

North Carolina State Grid

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
12161	7 April '46	10:57	1:10,000	± 1.7
162	"	10:58	"	± 1.7
163	"	10:59	"	± 1.7
131	"	9:50	"	± 1.4
132	"	9:51	"	± 1.4
133		9:52	"	± 1.4

Tide from (III): Bogue Inlet Ref. Sta.: Hampton Roads

Mean Range: 2.2

Spring Range: 2.6

Camera: (Kind or source) U.S. Coast and Geodetic Survey 9 Lens, 8 $\frac{1}{4}$ " focal length.

Field Inspection by: J.S.H., J.R.S., R.A.H., D.G.F., date: 12-9-46 to 4-30-47

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

Date of Mean High-Water Line Location (III): 12-9-46 to 2/13/47

Projection and Grids ruled by (III) T.L.J. Wash. Office date: 20 Aug. 1947

" " " checked by: " " date: 20 Aug. 1947

Control plotted by: R.R. Wagner date: 25 Aug. 1947

Control checked by: R.J. Pate date: 26 Aug. 1947

Radial Plot by: M.M. Slavney date: 11 Sept. 1947

Detailed by: R. Dossett date: Sept.-Oct. 1947

Reviewed in compilation office by: J.A. Giles date: Nov. '47

Elevations on ~~Field Edit Sheet~~ Map Manuscript
checked by: J.A. Giles date: Nov. '47

STATISTICS (III)

Land Area (Sq. Statute Miles): 9 (Approx.)

Shoreline (More than 200 meters to opposite shore): 23

Shoreline (Less than 200 meters to opposite shore): 6

Number of Recoverable Topographic Stations established: 11

Number of Temporary Hydrographic Stations located by radial plot: 4

Leveling (to control contours) - miles:

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-8743
SHORELINE SURVEY

26 AND 27. CONTROL AND RADIAL PLOT:

These are the subject of a special report submitted to the Washington Office 17 November, 1947 by Milton M. Slavney, Photogram-metric Engineer.

28. DELINEATION:

The delineable area of this shoreline survey falls within the limits of the $N \frac{1}{2}$ with the exception of a minute portion in the extreme southwest corner along Latitude $34^{\circ} 41' 15''$ which has been incorporated with the $N \frac{1}{2}$.

The field inspection was satisfactory except for the recovery of spoil banks, Mean Low-Water Line and shoal areas which left considerable doubt in the mind of the compiler. Areas of M.L.W. were too broadly designated. Similar areas in other parts of the project heretofore interpreted as shoal areas have been designated as falling within the limits of approximate M.L.W. These areas so labeled have been delineated accordingly and should be called to the special attention of the hydrographic party. *Approx. LW line added to tie in with the M.L.W. line as shown on the adjoining surveys. K.A.M. 2/18/51*

29. SUPPLEMENTAL DATA:

None used.

30. MEAN HIGH-WATER LINE:

The Mean High Water line was delineated according to measured distances or short dashed lines on the field prints shown by the field inspector.

31. LOW-WATER AND SHOAL LINES:

Approximate M.L.W. and shoal areas have been delineated as shown by the field inspector. Reference is hereby made to paragraph 28 of this report for further comment on this subject.

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

Attention is directed to a wreck at Latitude $34^{\circ} 43'$ Longitude $76^{\circ} 47'$ bearing a label "Wreckage". The field inspector did not recover it as to type of wreck and it is not possible to determine from the photographs whether this wreckage is submerged at all stages of the tide, uncovers or is bare. Further investigation is indicated. *See item #8 Field Edit Report.*

21

33. WHARVES AND SHORELINE STRUCTURES:

All wharves or shoreline structures apparent on the photographs or indicated by the field inspector have been delineated.

34. LANDMARKS AND AIDS TO NAVIGATION:

Landmarks and Aids to Navigation have been listed on form 567 and made a part of this report.

The beacons in Bogue Sound, designated by the field party as Hydrographic Stations, were cut in by the field party with plane table cuts; however the field man neglected to indicate the occupied positions on the photographs. This necessitated direct picking of the beacons to the nearest control point on the map manuscript instead of radial point intersection. For this reason they should be considered as having doubtful Geographic Positions and it is recommended that their positions be checked at the time of the 1: 20,000 scale topographic quadrangle field edit. *Checked by F.E. See item #9 Field Edit Report*

35. HYDROGRAPHIC CONTROL:

Fourteen (14) hydrographic signal sites (includes beacons mentioned in paragraph 34) were identified by the field inspector and their positions established on the map manuscript by radial intersections.

These stations are as follows:

4301,	Black Stack,	Eastern of 3,	Wallace Fish Factory.
4302,	Peak of Summer house on pier.		
4303,	East gable of Summer house on dock at Seven Gables.		
4304,	Corner of dock, Moorehead Boys Camp.		
4305,	Bogue Sound Daybeacon 5-C.		
4306,	" "	" "	6 Destroyed
4307,	" "	" "	7
4308,	" "	" "	8
4309,	" "	" "	10
4310,	" "	" "	11
4311,	" "	" "	12
4312,	" "	" "	14
4313,	" "	" "	15
4314,	" "	" "	18

Eleven (11) additional recoverable topographic stations were established for the use of the hydrographer.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

See paragraph 11 of Field Descriptive Report.

37. CONTOURS:

The only contouring done on this manuscript on 1: 10,000 scale was on the Bogue Banks. This contouring was discontinued at Longitude 76° 51' leaving 1½ minutes of the quadrangle to junction on the west with the 1: 20,000 topographic quadrangle. No explanation for this was given in the Field Inspection Report.

38. POLITICAL BOUNDARIES:

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

39. GEOGRAPHIC NAMES:

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

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

None available for comparison.

45. COMPARISON WITH NAUTICAL CHARTS:

A comparison made with Intracoastal Waterway Chart No. 833 (Scale 1: 40,000, bearing a print date 12/2/46) indicated very good agreement.

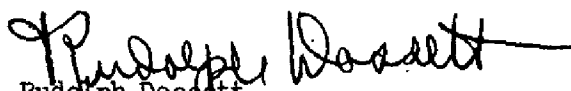
Attention is called to spoil banks along the Intracoastal Waterway Channel of Bogue Sound. The greater portion of these spoil banks was delineated as having a M.L.W.L. as indicated by the field inspection. The nautical charts show these areas with a M.H.W.L. This difference was commented on in paragraph 28 of this report.

Further attention is called to a "Large piece of wreckage", recovered by the field party and delineated accordingly. This detail is located along the shoreline in the extreme southwest corner of the map manuscript and does not appear on the foregoing nautical charts.


*Balance of contouring
was done by others done on a
1:20,000 photos in accord
with instructions. All contouring
in this quad was done by hand done
on 1:20,000 aerial photos. 1948*

Refer to item No. 32 of this report and note that the wreckage mentioned therein is shown on the map manuscript but does not appear on the nautical charts.

Respectfully submitted,


Rudolph Dossett
Cartographer
(Photogrammetric)

Approved and Forwarded:


George E. Morris, Jr.
Chief of Party.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS DEBIT CARDS FOR CHARTS

STRIKE OUT ONE

TO BE DELETED

Tampa Photogrametric Office, Tampa, Fla. Sept. 16, 1949

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

The positions given have been checked after listing by **Rudolph Dossett**

Tampa Photogrammetric Office

ROSS A. GILMORE
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

STRIKE OUT ONE

NONFLOATING AIDS ORIENTATIONS FOR CHARTS

Tampa Photogrammetric Office, Tampa, Fla. Sept. 16, 1949

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

The positions given have been checked after listing by

Tampa Photogrammetric Office

ROSS A. GILMORE
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.

Riley J. Sipe

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 CHARTERED
~~FOR THE FORTY-SEVEN~~

STRIKE OUT ONE

NON-REPEATING AIDS OR LANDMARKS FOR CHARTS

Morehead City, N. C. 28 January

1947

I recommend that the following objects which have ~~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

Rudolph 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.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE EXCLUDED~~

STRIKE OUT ONE

Morehead City, N. C. 28 January 1947

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

The positions given have been checked after listing by

R.A. Reece, Tampa Photogrammetric Office

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									
	BOGUE SOUND DAY BEACON 5-C		34	43	383	76	45	415	N.A. 1927	Radial Plot	1947	X			1234 833	
	" " " 6		"	"	534	76	46	14	"	"	"	X			"	
	" " " 7		"	"	512	76	46	1248	"	"	"	X			"	
	" " " 8		"	"	617	76	47	650	"	"	"	X			"	
	BOGUE SOUND LIGHT 9		"	"	599	76	48	294	"	Triang.	"	X			"	
	BOGUE SOUND DAY BEACON 10		"	"	699	76	48	1210	"	Radial Plot	"	X			"	
	" " " 11		"	"	673	76	49	471	"	"	"	X			"	
	" " " 12		"	"	780	76	49	1258	"	"	"	X			"	
	BOGUE SOUND LIGHT 13		"	"	742	76	50	404	"	"	"	X			"	
	BOGUE SOUND DAY BEACON 14		"	"	833	76	50	1114	"	"	"	X			"	
	" " " 15		"	"	792	76	51	121	"	"	"	X			"	
	BOGUE SOUND LIGHT 17		"	"	847	76	51	1173	"	"	"	X			"	
	BOGUE SOUND DAY BEACON 18		"	"	750	76	52	457	"	"	"	X			"	
	BOGUE SOUND LIGHT 9 same as Triangulation Station Beacon No. 3, 1933.														"	

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.

Chief, Review Section

Nov. 20, 1947

Technical Assistant to the Chief, Div. of Photogrammetry

Shoreline Surveys T-874³₂

1. Refer to paragraphs 4 and 5 of instructions, Ph-5. There will be three sheets on this quadrangle: (a) 1:10,000 scale shoreline sheets T-874³₂N and T-874³₂S (these being half quadrangle sheets), and (b) 1:20,000 scale quadrangle manuscript T-874³₂.

2. 1:20,000 scale film positives of the shoreline sheets 1(a) above will be made immediately and forwarded to Tampa for copying onto the quadrangle manuscript.

3. I suggest that the review of shoreline sheets T-874³₂ be deferred until the quadrangle is reviewed. Any change made on the shoreline sheets during review should be made in red, and should also be applied to the quadrangle manuscript T-874³₂. Any items on shoreline sheets T-874³₂ requiring field edit should be referred to the field at the same time the quadrangle manuscript T-874³₂ is sent for field edit.

B. G. Jones
Technical Assistant to the
Chief, Div. of Photogrammetry

~~on T8743 no details are shown~~

~~on T8743 $\frac{5}{2}$. let the manuscript~~

all details to be compiled at 1:10,000
scale are on T8743 $\frac{1}{2}$ Nothing
shown on T8743 $\frac{5}{2}$

GEOGRAPHIC NAMES

Survey No. T-8743

7 $\frac{1}{2}$ ' quad., N.C.

1	Name on Survey	A	B	C	D	E	F	G	H	K	
	North Carolina									USGB	1
	Carteret County										2
	Morehead Township										3
	Intracoastal Waterway									USGB	4
	U.S. No. 70										5
	State No. 24			(apparently begins at junction with U.S. No. 70)							6
	Atlantic and East Carolina R.R.										7
	Croatan National Forest										8
											9
	Onslow Bay										10
	Atlantic Ocean										11
	Bogue Banks										12
	Bogue Sound										13
	Cedar Hammock			(a small section here)							14
	Drum Shoals										15
	Hoop Pole Creek										16
	Hoop Pole Woods			(name should be extended to cover larger area, both to east and to west)							17
	Hoop Pole Landing										18
	Willis Landing										19
	Camp Glenn										20
	Newport River										21
	Mansfield Road										22
	Mansfield										23
	Peltier Creek										24
	Spooner Creek			(not Spooners)							25
	St. Marks Chapel										26
	Morehead City Airport										27
	Wildwood										28

GEOGRAPHIC NAMES

Survey No.

T-8743

GEOGRAPHIC NAMES												
Survey No.												
T-8743												
2	Name on Survey	A	B	C	D	E	F	G	H	K		
	Camp Morehead (Abandoned)	No									1	
	Jumping Run									USGB	2	
	Hull Swamp Branch	No									3	
	Hull Swamp			To be checked: no map usage and nothing in Names Report about this name								4
				best usage 4-6-50 A.J.W.								5
											6	
											7	
					Names underlined in red approved, based on Wright's report. Subject to final check by Field Edit.							8
					4/29/49 L. Heck							9
								4-6-50 A.J.W.			10	
											11	
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											25	
											26	
											27	

M 234

SUPPLEMENTAL REPORT.
GEOGRAPHIC NAMES
PROJECT PH-5 (45)
TO ACCOMPANY FIELD EDIT REPORT
QUADRANGLE T-8743

DESCREPANCIES ON FORM M 234:

HULL SWAMP vs HULL SWAMP BRANCH.- This is one and the same feature. It is as well known by one as the other. For sake of expediency, the shorter form of the name is recommended.

NAMES IN DISPUTE (FIELD):

DRUM SHOALS - The location of this feature was questioned, but the original location, as shown on the map manuscript, is correct.

HOOP POLE WOODS - The extent of application of this name was in confusion, but the extent as now delineated on the map manuscript is correct.

* HOOP POLE LANDING - This name was in use at the time of the original investigation, as applied to a pier on the Sound side of Bogue Banks, opposite Willis Landing. With the subsequent rotting of the pier landings have recently been made a little over a mile to the east, at the head of HOOP POLE CREEK. The name HOOP POLE LANDING is now applied to that site, and is recommended as such for charting.

NEW NAMES (FIELD):

* HOOP POLE CREEK - This is a well substantiated new name. Recommended.

Submitted:

22 June 1949

Approved:

28 July 1949

A. J. Wraight
Cartographer

E. R. McCarthy
Chief of Party

* Names restored to old location
on account of new pier
at old site.

4-6-50
a.d.w.

Review Report T-8743
 Topographic and Shoreline Maps
 May 4, 1950

62. Comparison with Registered Topographic Surveys.-

438	1854	1:20,000
1110	1867	1:20,000
1328	1873	1:20,000
4295	1927	1:20,000
5047 supp.	1933	1:20,000
6001	1933	1:20,000
6002	1933	1:20,000

The above topographic surveys are superseded for the purpose of nautical charting by these maps.

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 the maps and
 66. Adequacy of Results and Future Surveys.- These maps comply *the* with the project instructions and Bureau policy. There are no *charts* discrepancies. They comply with the National Standards of Accuracy.

67. Contours.- Refer to paragraph 6 of the field inspection report. Contours along the Bogue Banks have been revised by the reviewer, to show the narrow ridge referred to, in a clearer manner. As originally shown the contours were too close together and the manuscript would not have reproduced clearly. A carrying contour was used to represent the 5.10 and 15 foot contours and where necessary the 20 and 25 foot contours.

68. Submarine Cables.- Refer to the last paragraph in the field edit report. This paragraph refers to Submarine Cables on T-8744 and should be disregarded.

Reviewed by:

B. Thomas Hynson
 B. Thomas Hynson

APPROVED:

L. V. Griffith
 Chief, Review Section
 Div. of Photogrammetry

H. Edmonston
 Chief, Nautical Chart Branch
 Division of Charts

O. S. Reading
 Chief, Div. of Photogrammetry

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

NAUTICAL CHARTS BRANCH

SURVEY NO. 78743

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.

02-TMP/880

20 June 1952

MEMORANDUM FOR: DIRECTOR, U.S. COAST AND GEODETIC SURVEY, DEPARTMENT
OF COMMERCE

ATTENTION: Administrative Planning Section, Mr. Kounces

SUBJECT: Classification Clearance

1. Returned herewith is USCGS manuscript No. T-8743, Bogue Sound, North Carolina, which was submitted by your agency for security clearance prior to publication.

2. There is no objection to publication of the inclosed manuscript in unclassified form.

FOR THE ASSISTANT CHIEF OF STAFF, G-2:

D. L. MURPHY, Maj, GS.

1 Incl

Manuscript T-8743

for HARRY R. BOYD

Colonel, GS

Chief, Training Division