Si^t

8746 N\{5

Diag'd. on Diag. Ch. No 1233

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-8746

LOCALITY

State North Carolina

General locality Outer Banks

Locality Core Banks

194 6-149

CHIEF OF PARTY

R.J.Sipe

LIBRARY & ARCHIVES

DATE December 20,1949

8-1870-1 (1)

8746

DATA RECORD

T-8746

Quadrangle (II):

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

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

Report No. T-

Completed survey received in office:

May 1949

Reported to Nautical Chart Section: May 1949

Reviewed: 26 Oct 1949

Applied to chart No.

Data:

Redrafting Completed:

Registered: 2 Dec. 1949

Published:

Compilation Scale: 1: 10,000

Published Scale: 1: 24,000

None Scale Factor (III):

Geographic Datum (III): N.A. 1927

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

Reference Station (III): COWPEN 1913

Lat.: 340 42: 35"447(1092.3m) long.: 760 28! 28"930(736.2m)

Adjusted XXXXXXXXXXXXXX

State Plane Coordinates (VI): N.C. State Grid

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
1611.5	4-7-46	0931	1:10,000	2.8 ft.
16116	Ħ	0932	71	2.8 "
16117	17	0933	tt	2.8 "
16118	Ħ	0934	11	2.8 "
16119	11	0935	Ħ	2.8 "
16172	Ħ	1105	11	3.3 "
16173	T†	1109	II	3.3 "
16190	t:	1131	11	3.2 "

Tide from (III): Cape Lookout (Ref. Sta. Hampton Roads)

Mean Range: 3.7

Spring Range: 4.4

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

John S. Howell

Field Inspection by: John R. Smith

Robert A. Horn

date: 27 Feb. 1947

26 Mar. 1947

y,

Field Edit by:

Elgan T. Jenkins

date: 15 Apr. 1949

Date of Mean High-Water Line Location (III): 27 Feb., 10 Mar., 1947

Projection and Grids ruled by (III) T. L. J. (Wash. Off)date: 27 Aug., 1947

checked by:

date: 27 Aug., 1947

Control plotted by: J.A. Giles

W.H. Shearouse

Control checked by: C.H. Baldwin

date:

3 Sept. 22 Sept.

M.M. Slavney

date:

Radial Plot by:

M.M. Slavney

date: 27 Oct., 1947

Detailed by:

C.H. Baldwin

date: Nov.-Dec., 1947

Reviewed in compilation office by: J.A. Giles

date: Dec. 1947

. checked by: J.A. Giles

date: Dec., 1947

STATISTICS (III)

Land Area (Sq. Statute Miles): 3.5

Shoreline (More than 200 meters to opposite shore): 20.6 statute miles

Shoreline (Less than 200 meters to opposite shore): 9.2 statute miles

Number of Recoverable Topographic Stations established: 7 10

Number of Temporary Hydrographic Stations located by radial 3 plot:

Leveling (to control contours) - miles: 6

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

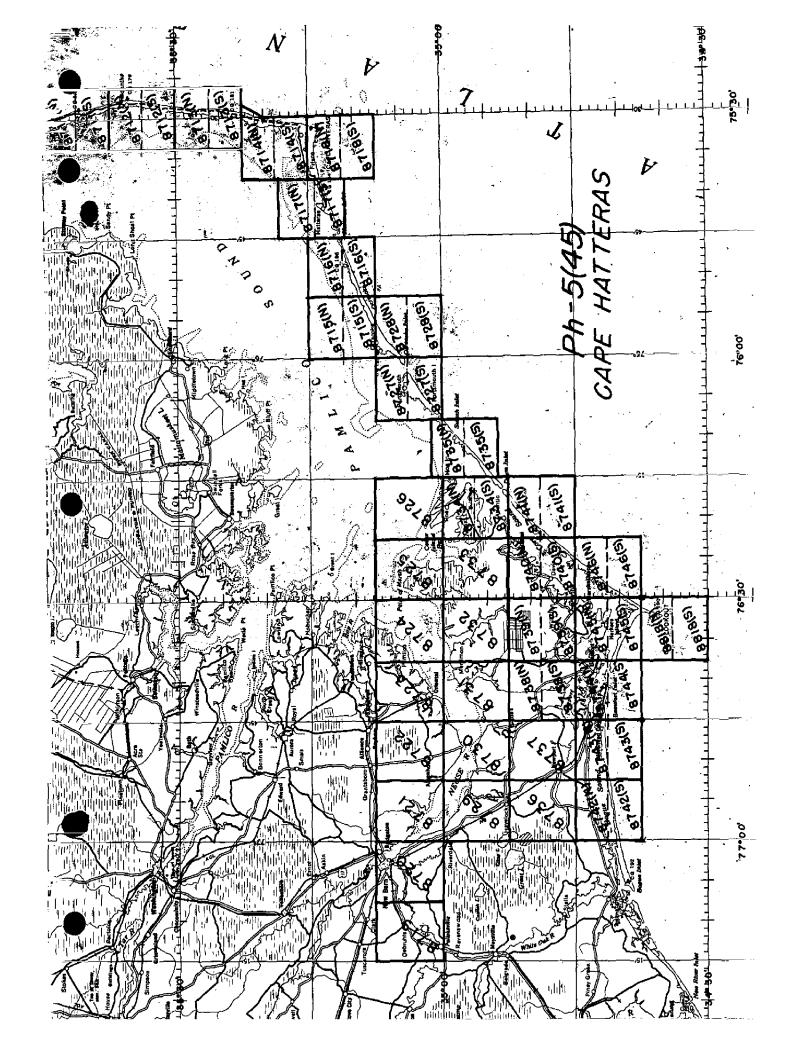
When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

STATION	SOURCE OF INFORMATION (IMDEX)	DATUM	LATITUDE OR V-COORDINATE LONGITUDE OR X-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM FROM GRID OR FROJECTION LINE CORRECTION FORWARD (BACK)	FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
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Wine, 1947 min ?	=	z			1115.8 825.3	
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Core Sound Lt.37, 1949	11	+			11,50.4 586.1	-
Core Sound Lt.39, 1949	н	£	34, 1,3 02,136 76 29 27,945		715.4 815.2	
Core Sound Lt.41,			34 43 0.251 76 29 59.812		5.2 181.3.7 1528.9 4.4	
			and the state of t	ai ph	2 Geodesy Nov. 1949.	
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000	DATUM													-									lavney
SCALE OF MAP 1:10,000	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD																						CHECKED BY: M.M. Slavney
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PROJECT NO. Ph-5	LATITUDE OR ,	34 44	76 26		76 28		76 28		76 28	34 41	76 28	31. 1.3			34 43	76 26							Z March,
PROJEC	DATUM	N.A. 1927						,		.,		d	110		(M)	7							DATE
· O	SOURCE OF INFORMATION (INDEX)	G.Ps.	Line 4	B.Ps.	Line 7	3 P.464	Line 3	P-464	True 4	G.Ps.	L. 5 404	T.Ps.	F.406	74.72	riela	dwoo							ronse
MAP T-8746 2	STATION	237 Deer Cr.		238 Cowpen, 1913		e,191	Core Bank Ho.	1913		Deep Marsh Ho.	241 Chimney, 1913	at, 1933		Capla 101.7	144								COMPUTED BY. W.H. Shearouse

1	OR 1 of 1	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)		•			Off. sheet	(on 7-8745)	(No recovery in 1947)					M shit	Dood Marsh Taland						М - 2388-12	
	SCALE FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	1556.4 (292.5)	(4.604) 9.7111	1563.0 (285.9)	1115.8 (411.5)	1352.7 (496.2)	553.5 (973.9)	4		J				on 1. He						DATE	
	000	TUM			-																	
	SCALE OF MAP 1:10,000	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)								*											CHECKED BY.	
	PROJECT NO. Ph-5(45)	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	34 40 50.51	76 29 43.90	34 40 50.723	76 29 43.830	34 40 43.899	30						42-40-42.045	76-30-22,134						T.E	
			N.A.	1927									4								DATE.	
	С	SOURCE OF INFORMATION (INDEX)	G.Ps.	Line 5	V G.Ps.	F.404	G.Ps.	Line 1							" Ked"							
	MAP T.8746 2	STATION	S.Gable Ho.N.E.	of Sta. Leo.,1933	*Rush 1s, Hogpen Bay	1913	Marsh 1913				* Islam	< m		*	Leo 1933" described and m						1 FT 3048006 METER COMPUTED BY:	



Topographic map T-8746 is one of 37 standard $7\frac{1}{2}$ minute quadrangles in Project Ph-5(45) and falls on the south side of the project at the SW end of Core Banks and Core Sound at 76°30' W longitude. This is a planetable contouring project. T-8746 is composed of two complete topographic map manuscripts at 1:10,000 scale, which are named the S/2 and the N/2. The field work was accomplished during February and March 1947 by Riley J. Sipe, Chief of Party, and corrections and additions to 15 April 1949 during field edit, E. R. McCarthy, Chief of Party. The Tampa Photogrammetric office did all work incident to office compilation.

Chronology of Mapping Operations: 4

- a. Nine lens aerial photography and laboratory processing 1:10,000 scale.
- b. Field operations included shoreline inspection, spirit leveling (4th order) incident to planetable contouring, recovery, establishment, and identification of horizontal and vertical control, clarification of photographic detail, and geographic names investigation.
 - c. Compilation by graphic methods.
- d. Preliminary office inspection prior to field edit.
 - e. Field edit.
- f. Final review of both manuscripts to insure completeness and conformance with specifications, and to include corrections in accordance with the field edit survey.
 - g. Processing of map manuscript.

A 1:20,000 scale glass plate negative will be prepared for transmittal to the Geological Survey.

T-8746 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-8746 will be filed and may be obtained as follows:

- a) Filed in the Division of Photogrammetry:
- 1) Two manuscripts, N/2 and S/2 T-8746, 1:10,000 scale acetate manuscripts, complete with field edit and final review corrections applied. All field edit work was furnished on the discrepancy prints submitted by the W.O.
 - 2) A duplicate descriptive report, (includes both N/2 and S/2).
 - 3) Topographic cards (524), and horizontal control identification cards.

- b) Registered and filed in the Bureau Archives:
 - 1) Descriptive Report (includes both N/2 & S/2)
 - 2) 1:10,000 scale cloth mounted lithographic print of map manuscript T-8746 N/2.
 - 3) 1:10,000 scale cloth mounted lithographic print of map manuscript T-8746 S/2.
 - 4) The above prints are to be permanently registered under one number (T-8746) and when it is published, a cloth-backed copy of the published map, at a scale of 1:24,000, also will be registered.

FIELD INSPECTION REPORT T-8746 (340-37.5' /760-22.5' /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 Director's 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 performed by the personnel on the dates indicated:

NAME AND TITLE	FIELD WORK	DA	TE	
John S. Howell Topographic Engineer	Horizontal Control Shoreline Inspection Interior Inspection	_	Feb. Mar	
John R. Smith Engineering Aid	Supplemental Vertical Control	26	Feb	47
Robert A. Horn Photogrammetrist	Contours		Mar Mar	

1. Description of the Area:

The entire land area of this quadrangle is a part of Core Banks which in turn is a part of the North Carolina Barrier Beaches and consists of nearly flat beaches on the Atlantic Ocean side and low flat marshes on the Core Sound side. The sand beaches are the hightest part of the land mass with an average elevation of about eight feet above mean sea level. At the times of high storm water the entire area is awash and the storm water drains westward to Core Sound. The western half or the marsh area is covered with marsh grass and very little other vegetation can be found.

Completeness of Field Inspection:

Field inspection is believed to be complete and adequate. At the time of shoreline inspection it was determined that the Atlantic Ocean Mean High Water Line had built itself out about thirty meters subsequent to the time of photography. For other details of this phase refer to the appropriate paragraphs below.

Interpretation of the Photographs: 3.

All phases of the field work, except the establishment of supplemental vertical control, was completed on 9 lense 1/10,000 scale photographs and no difficulty was encountered in the interpretation of the photographic detail.

Horizontal Control:

Nine Horizontal Control stations were searched for or recovered and of these two were pricked on the photographs for use in control of the radial plot. Horizontal Control was supplemented by the establishment of topographic stations. The radial plot checks within the accuracy limits required since six additional triangulation stations where established.

5. Vertical Control: during field odit, and plotled on the ms.

There are no bench marks of this or any other Agency within the limits of this quadrangle. Eight temporary bench marks were established by fourth order spirit leveling for the convenience of the contour party.

6. Contours and Drainage:

To expedite the field work all contouring was performed on 9 - lense 1/10,000 scale photographs. Control of the contours was maintained by reference to the fourth order temporary bench marks mentioned in the above mentioned paragraph of this report. Two five-foot contours generally parallel the beach with one falling on each side of the ridge of sand that has been built up parallel to the beach.

7. Mean High Water Line:

The entire shoreline was inspected by jeep and by walking along the high water line. On the Atlantic Ocean beach the Mean High Water Line was delineated on the photographs and substantiated by measurements from identifiable photographic detail. At this time it was noted that this

beach had built itself out about thirty meters.

On the Core Sound side the shore line is apparent with few exceptions and is easily discernible on the photographs.

8. Low Water Line:

Low water line on the Atlantic Ocean side was measured at only one point; surf and the stage of the tide prevented the obtaining of other measurements.

No definite low water line exists on the Sound side due to the variable nature of the tide. The approximate low water line was indicated on the photographs.

9. Wharves and Shore line Structures:

No wharves or shoreline structures of importance exist in this quadrangle. The few fishing shacks and docks are visible on the photographs.

10. Detail Offshore from Mean High Water Line:

Detail offshore consists of fixed aids to navigation in Core Sound.

11. Landmarks and Aids to Navigation:

No landmarks exist in this quadrangle.

Aids to Navigation were located by theodolite cuts, and listed on Form 567. Also computed by Div. of Geodesy

12. Hydrographic Control:

Three hydrographic stations were selected and pricked on the photographs in accordance with the project instructions. Described on pricking cards under T-8746

13. Landing Fields and Aeronautical Aids:

There are no landing fields or Aeronautical Aids within the limits of this quadrangle; however, it is possible for light planes to land on the beach at low water.

14. Roads:

There are no roads or trails in this quadrangle.

15. Bridges:

No bridges exist within the limits of this quadrangle.

16. Buildings:

The only buildings in the area are shacks used as temporary shelter by fisherman.

17. Boundaries:

No boundaries fall within the limits of this quadrangle. All land shown falls in Cartaret Co. N.C. and the Tup. boundaries were abled from amos submitted by the county sectionities 18. Geographic Names: disted Teb. 7,1949. (126 5 file)

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

OK & by Mr. Hack

Submitted: 2 April 1947

John S. Howell ' Topographic Engineer

Approved: Max 1947

Riley J. S. pe Chief of Party

COMPILATION REPORT TO ACCOMPANY QUADRANGLE T-8746

26 AND 27. CONTROL AND RADIAL PLOT:

A special report was prepared and submitted by Milton M. Slavney, Photogrammetric Engineer, on 17 November, 1947.

Filed under Phos(45) in Div. of Phyry - General files.

28. DELINEATION:

The nine-lens photographs used in delineating this quadrangle were of fair to good scale.

The field inspection was adequate, and the map manuscript has been delineated accordingly.

29. SUPPLEMENTAL DATA:

None.

Planetable contours as part of Aeld inspection

30. MEAN HIGH-WATER LINE:

The mean high-water line was delineated according to the field inspection. See field inspection report item No. 7.

31. LOW-WATER AND SHOAL LINES:

The low-water and shoal lines were shown according to the field inspection. All low-water lines on this quadrangle are approximate. See field inspection report item No. 8.

32. DETAILS OFFSHORE FROM HIGH-WATER LINE:

Details offshore consist of fixed aids to navigation in Core Sound only.

33. WHARVES AND SHORELINE STRUCTURES:

All wharves and shoreline structures have been shown according to instructions.

34. LANDMARKS AND AIDS TO NAVIGATION:

No landmarks were recommended for charting in this quadrangle.

Aids to navigation were located by theodolite cuts and listed on form 567, with the exception of Core Sound Light 36 which requires further field investigation. The position will be scaled and submitted after field edit. New GP's were obtained during field edit. Apr. 1949.

RIF

35. HYDROGRAPHIC CONTROL:

Seven hydrographic control stations were located by radial plot

4601 NW Gable of unpainted shack. (Radial Plot)
4602 Chimney on unpainted shack. (""")
4603 NW Gable of green shack. (""")
4604 Core Sound Light No. 36. (Theodolite Cuts)
4605 Core Sound Light No. 37. (""") (Now Shown 25 Al
4606 Core Sound Light No. 39. (""") (Field asit)
4607 Core Sound Light No. 41. (""")

36. LANDING FIELDS AND AERCNAUTICAL AIDS:

None. Refer to field inspection report item No. 13, regarding this subject.

37. POLITICAL BOUNDARIES:

None. Cartaret County, N.Car. See 17 (Field Inspection Report) for Two. boundary note. 38. GEOGRAPHIC NAMES:

All geographic names have been shown according to the geographic name sheet received from the Washington Office.

39. TOPOGRAPHIC STATIONS:

Numerous topographic stations located by the radial plot, disagree with the chained distances from mean high-water to the station. Investigation has been requested of the field editor.

Field edit says of as they are.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

None available for comparison.

45. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with nautical chart No. 420 bearing a print date of 13 January 1947. No discrepancies were noted, the shoreline being in good agreement. See field inspection report item No. 7.

Approved and Forwarded:

George E. Morris, Jr. Chief of Party.

Respectfully submitted,

That I Baldwin,

Charles H. Baldwin,

Photogrammetric Aid

Form 567 April 1945

DEPARTMEN OF COMMERCE

U. S. COAST F" GEODETIC SURVEY

NONFLOATING AIDS OR CHARTS FOR CHARTS

7.5	
BE CHARTED	
TO	X(3)/(1

IKE OUT ONE

Washington, N.C.

April 29,

1949

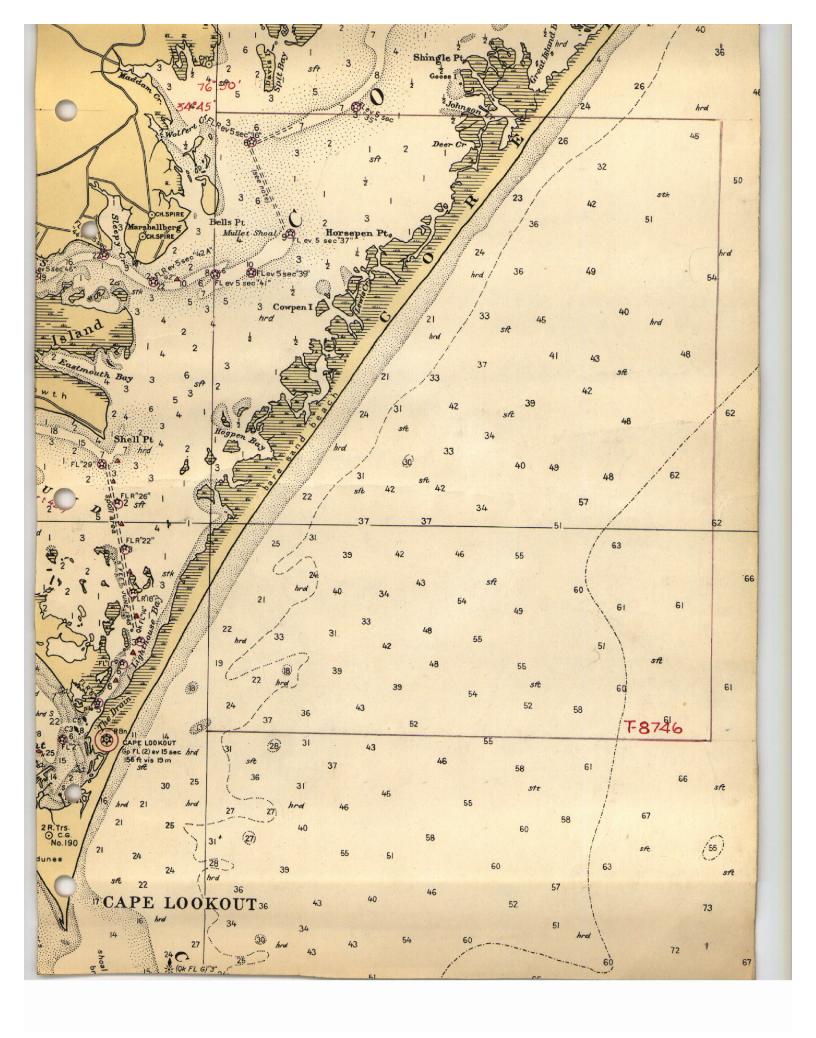
I recommend that the following objects which have (backgrout) been inspected from scaward to determine their value as landmarks be charted on xadenedctron, the charts indicated.

The positions given have been checked after listing by Tilliam A. Rasure, Tempa Photogrammetric Office M. C.

							.	E.R. McCarthy	1	Chie	Chief of Party
STATE				4	POSITION			METHOD		THAH	
	North Carolina		LATI	LATITUDE	LONG	LONGITUDE		LOCATION AND	DATE OF	108E C) 08 CH	CHART
CHARTING	DESCRIPTION	SIGNAL	-	D.M.METERS	- 0	D.P.METERS	DATUM	SURVEY No.	LOCATION	HSNI	
CORE SOUND LIGHT 36	Red triangular daymark on pile.		34 44	985.7	76 29	712.6	N.A. 1927	Triang.	March	×	1233
CORE SOUND	Black square daymark on pile. Flash 0.5 Sec.30 Cp. 14 ft. high.		34 43	927.2 76 28		1439.5	ıı	5	11	× .	=
COTE SOUND LIGHT 39	Black square daymark on pile. Flasj 0.5 Sec. 50 Cp. 14 ft. high		34 43	65.8 76 29	76 29	711.1	=	=	-	X	=
CORE SOUND LIGHT 41	Black square daymark on pile. Flash 0.5 Sec. 50 Cp. 14 Ft. high.		34 43	7.7	7.7 76. 29	1521.9	=	=	13	×	=
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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.

U. S. GOVERNMENT PRINTING OFFICE 10-21696-1



GEOGRAPHIC NAMES Survey No.		, ar	or to or	S. Node	or local side	Or oco Hoo	O Cuide o	A POUR MENTO	J.S. Jaki	;53 /
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Core Banks								١.	·	
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Mullet Shoal										
Bells Point		-	•							_
Mullet Shoel Channe	<u>.</u>									
Horsepen Point	1		·			ļ. <u></u> -		ļ <u></u> -		
Deer Pond			ļ. <u>.</u>	<u> </u>		ļ ·				
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Horsepen Creek	-		<u> </u>			ļ				_
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Rawson Creek		 		·		<u> </u>		-	-	
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Little Deep Marsh Island	1								11
Hogpen Bay	-			<u> </u>					2
Gunning Hammook Island								,	3
Atlantic Ocean*	-								4
North Carolina*	(for	title)					•		5
Carteret County					·				6
Guthrie Hammook	10 -	10-49 1-W							7
	*	- Deci	sion o	r BGN					8
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FIELD EDIT REPORT Quadrangle T-8746 34°-37,5-76°-22,5/7,5 Project Ph 5(45)

E. R. McCarthy, Chief of Party

The field edit of this quadrangle was completed during March, 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.

46 METHODS:

There are no roads within the limits of this quadrangle, such features as structures and contours were checked visually.

Core sound lights #36,37,39 and 41 were located by triangulation as were topographic stations Baby 1946 and Wine 1947.

Geographic positions and observing scheme are attached.

47 ADEQUACY OF COMPILATION:

The compilation of the quadrangle was adequate.

48 ACCURACY TESTS:

No accuracy tests were specified. It is believed to comply with the horizontal and vertical accuracy specifications. Several areas were visually examined in this quadrangle, and the contour expression is satisfactory.

4 HORIZONTAL CONTROL:

Forms 526 are being submitted to reconcile any questions on horizontal control.

7 MEAN HIGH WATER LINE:

The M.H.W.L. was checked from approximately one-third of the topographic stations. The distances shown on the pricking cards are correct as of the date of field edit. The maximum change was 4 meters which, considering the nature of the beach, is minor.

18 GEOGRAPHIC NAMES:

One new name came to light during field edit which is shown on the Geographic names print, along with a list of names of reliable nearby residents as references. A copy of the map compilation was reviewed by Mr Roby Fulcher of Atlantic N. C. Mr Fulcher has been a fisherman in this area for many years and is better qualified to review the map than any other resident contacted. Mr Fulcher could find no errors.

Submitted: 15 April 1949

Elgan T. Jenkins Cartographer

Approved 20 April 1949.

E. R. McCarthy Chief of Party

Review Report T-8746 Topographic 20 October 1949

62. Comparison with Registered Topographic Surveys

T-1017	1866	1:20,000
T-3394	1913	1:20,000
T-8044	1942;45	1:20,000
Т-8045	1942:45	1:20,000

This survey (T-8746) unqualifiedly supersedes the above listed surveys for nautical charting. It is the most comprehensive topographic survey available for this area.

63. Comparison with Maps of Other Agencies

None

64. Comparison with Contemporary Hydrographic Surveys

Mone

65. Comparison with Nautical Charts

420	Jan.	1947	1:40,000
1233	Aug.	1942	1:80,000

See item 7 of field inspection report for information pertaining to the building up of Core Banks on the Atlantic Ocean side.

66. Adequacy of Results and Future Surveys. Field edit was instructed to obtain geographic positions by field methods for 6 stations located by the radial plot. Subsequent plotting of these positions revealed that the horizontal accuracy of this survey is not questioned.

No vertical accuracy test was run on this survey.

This map fulfills the Ph-5(45) instructions and Bureau policy and complies with the National Standards of Accuracy.

It is noted that due to the nature of the formation of Core Banks, the MHWL on the ocean side and the apparent shoreline on the Core Sound side are constantly changing due to storms and heavy seas common to the area. However, in contrast to other maps of Core Banks to the north, the sea does not course through into the sound at this point and sea action would appear to be less active here.

Reviewed by:

Approved by:

Chief, Review Section & Division of Photogrammetry

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