8733

C. C. College

Diag'd. on Diag. Ch. No. 1233

Form 50s

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey

Field No. Ph-5(45)C

COffice No. T-8733

LOCALITY

State

North Carolina

General locality

Long Bay

Locality

Nelson Bay to Turnagain Bay

CHIEF OF PARTY

R.J.Sipe

LIBRARY & ARCHIVES

DATE

September 15,1949

B-1870-1 (1)

date the cartographer remarks

9-29-69 419 Decler Fully applied after verification

6-9-70 1231 Z. My Tally appl. via cht 1233 #28

6-5-70 1231 6. my ...,

T-8733

Quadrangle (II):

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

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

Copy filed in Descriptive

Report No. To

Photogrammetry Office files

Date:

Completed survey received in office: 19 April 191948

Reported to Nautical Chart Section: - 26 April91/2948

Reviewed: 9 June 1949 Applied to chart No.

Redrafting Completed:

Registered: 9 Sept. 1949 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): EXTRA 1932

Lat.: 34° 57' 47.346"(1459.0m) Long.: 76° 26' 02.636" (66.9m) Adjusted Xinaddusted

State Plane Coordinates (VI):

X = Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

•	Number	Date	Time	Scale	Stage of Tide
,	16001	5 April 1946	15;50	1:20,000	No perceptible tide in
	16002	Ħ	15:51	' ff	this area.
	15993	11	15:12	11	
	15994	11	15:13	11	

Tide from (III):

No tide

Mean Range:

Spring Range:

Camera: (Kind or source) U.S. C. & G.S. 9-lens, 81 focal length

Field Inspection by: M.A. Stewart, J.R. Smith, R.A. Horndate: 7/16/47 to 8/20/47

Field Edit by: E. T. Tenkins

date: Tan 1949

Date of Mean High-Water Line Location (III): 8/18/47 to 8/20/47 All shoreline in the quadrangle is"apparent" No. mean high-water line was recovered. See item No. 7, Field Inspection Report.

Projection and Grids ruled by (III) T.L.J. Wash. O. date: 10-29-47

checked by: date: 10-29-47 H.D.W.

Control plotted by: R. Dossett date: Feb. 1948

Control checked by: B. F. Lampton date: Feb. 1948

date: 2 Mar. 1948 M.M. Slavney Radial Plot by:

date: March 1948 R. Dossett Detailed by:

11 date:

Reviewed in compilation office by: J.A. Giles

Map Manuscript Elevations on RightxRattxShaut

checked by: date: March 1948 J.A. Giles

STATISTICS (III)

Land Area (Sq. Statute Miles): 40

Shoreline (More than 200 meters to opposite shore): 28.8

Shoreline (Less than 200 meters to opposite shore):

Number of Recoverable Topographic Stations established: 3

Photo-hydro

Number of Temperaryx Hydrographicx Stations located by radial plot: 0

Leveling (to control contours) - miles: 5

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

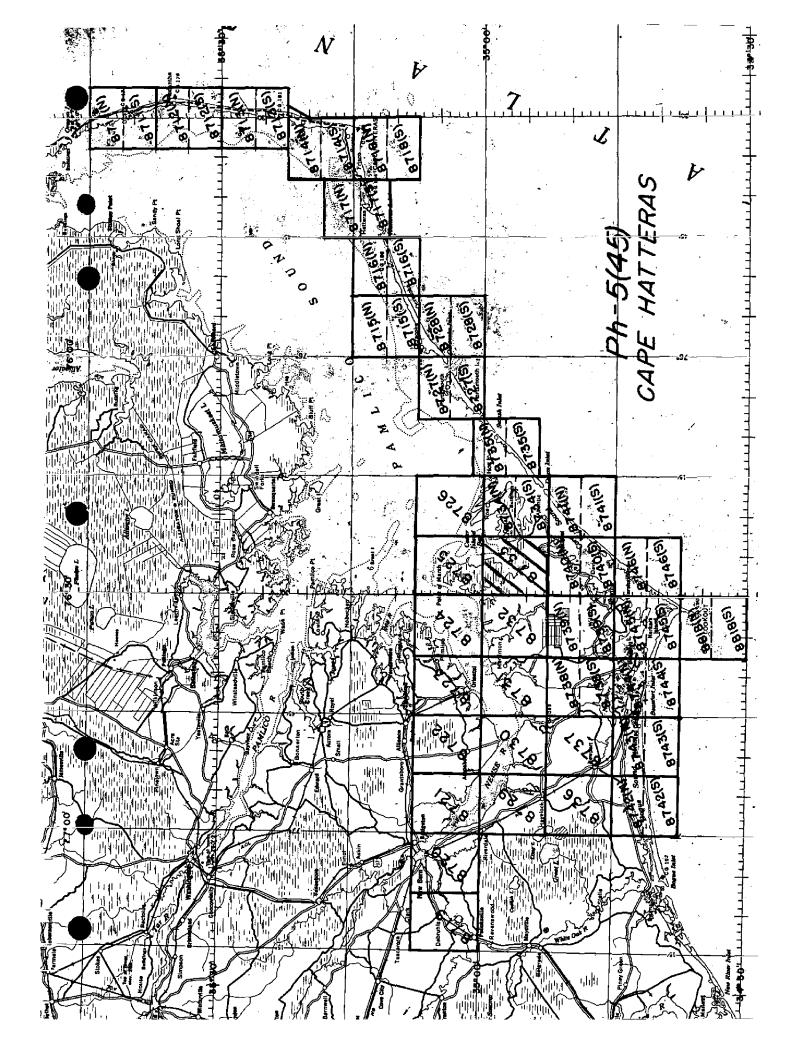
When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

0 1 of 1	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)											M - 2388-12
SCALE FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK) F	1332.0 (516.9)	55	832.5 (1016.4)	603.3 (918.3)	1459.0 (389.9)	775.5 (746.0)					PATE 9 JULY 1947
20,000	DATUM				Smeters				?			Slavney
SCALE OF MAP 1:20,000	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)				Station CLAM, 1913 falls about					,		CHECKED BY. W.W. S
PROJECT NO. Ph-5(45)	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	34° 58¹ 43.224" 76 22 56.764	34 56 13.016 76 23 12.956	34 53 27.015 76 24 13.836	34 59 36.08 Stotion 76 29 23.79 offshon	1010	34 59 57.502 76 25 30.580	7				DATE 2 April 1947
		N.A. 1927	=	=	=	=	=					DAT
0	SOURCE OF INFORMATION (INDEX)	G.P.s P 405	G.P.s P.405	S.P.218 P.16	G.Ps. P.482	S.P. 218	S.P.218 P.16					Shearouse
MAP T. 8733	STATION	YOUNG, 11932	CANAL, 1932	SALTER, 1935	CLAM, 1913	EXTRA, 1932	DAY, 1933					COMPUTED BY. W. H. Sh

: 1

NE



Project Ph-5(45), Subdivision A, B & C l March 1947

MEAN HIGH WATER LINE (fast Land)	3mm minimum
OFFSHORE EDGE OF MARSH (apparent shoreline)	3 mm minimum
GRASS IN WATER	Gre
MEAN LOW WATER LINE (approximate)	
MEAN LOW WATER LINE (definite)	
INSHORE EDGE OF MARSH	
INTERMITTANT DRAINAGE	
PERENNIAL DRAINAGE	
CONTOURS	557 or 557
PLANE TABLE ELEVATIONS	
FLY LEVEL ELEVATIONS	7-12 or 7-12
BENCH MARKS	12.7
TOPO STATIONS (orbitalists)	Q E 247, 1947 Elev. 10.78
(arbitrarily assigned name)	S COLE 1944
TOPO STATIONS (natural name)	PIDGEON, 1946
TOPO STATIONS (additional Hydro Control, not named)	# 4506
LANDMARKS	Landmark
TRIANGULATION STATIONS	
SUBSTITUTE STATIONS	A MINN, 1940
BOUNDARIES (from Uts.G.S. Bulletin 788 E	A HAPPY, 1950
National, State	
County	
Civil Township, District, Precinct, etc	
Reservation	
City, Village	
Cemetery, small park, etc	
NOTE: Shoreline should never be inked completely. A of detail from which a measurement to HWL is symbol should be used thus:	

FIELD INSPECTION REPORT T-8733 (34°52:5"/76°22.5/ 7.5 Project Ph-5(45) Sub-project C R.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; supplement 1 to the above, dated 11 December, 1946, and Photogrammetry Instructions numbers 10 and 15, dated 14 April, 1947 and 16 June, 1947 respectively.

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

Name & Title	Field Work	<u>Dates</u>
M.A. Stewart Engr. Aid.	Contours & interior Inspection	7 - 16 - 47 8 - 12 - 47
	Levels & vertical control Recovery	1 - 8 - 47 2 - 27 - 47
J.R. Smith Engr. Aid.	Levels	6 - 25 - 47 6 - 25 - 47
R.A. Horn Photogrammetrist	Shoreline & Recovery	8 - 18 - 47 8 - 20 - 47

1. Description of Area

A major portion of the land area of this quadrangle is referred to locally as the "Open Grounds". Actually this is a tangeled mass of underbrush and briars thriving on very swampy land. Interspersed in this area are some stands of Pine; however they are of little importance commercially due to their inaccessability. Generally speaking the "Open Grounds" could be considered useless except for the Wildlife it might maintain.

U.S. Highway #70 runs through the southeastern part of this quadrangle.

2. Completeness of Field Inspection

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

3. <u>Interpertation of the Photographs</u>

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

4. Horizontal Control

All horizontal control stations were searched for in this quadrangle. It is felt that a sufficient number were recovered and identified for adequate compilation.

5. Vertical Control

Vertical control consisted of the recovery of existing Bench Marks, and the establishment of Bench Marks with 3rd order accuracy along U.S. Highway #70.

Five miles of Fly Levels were run along a ditch in the southern part of the quad, to facilitate contouring.

6. <u>Contours & Drainage</u>

Contouring was done on 1:20,000 scale photographs.

Normal Planetable procedures were employed in contouring and in the location of drainage. However, due to the nature of the "Open Grounds" as mentioned, hand level lines were used to some extent.

Drainage on the mainland is pronounced near the shoreline. The head waters, however, are very indefinite since they originate in the "Open Grounds". No definite pattern exists here because the rain fall is eliminated by seepage.

7. Mean High Water Line

The mean high water line, as such, is non-existent in this quadrangle. Since the major portion of the quadrangle is marsh, the shoreline is predominantly apparent shoreline.

8. Low Water Line

The location of low water line was not delineated in this quadrangle since that stage of tide was not encountered when the party was in the area. Tides in this section are not very preceptible and are infleunced primerily bygwind.

9. Wharves and Shoreline Structures

There are no wharves or shoreline structures in this quadrangle.

10. Details Offshore from High Water Line

No details offshore were noted.

11. Landmarks and Aids to Navigation

No landmarks exist within the limits of this quadrangle. Aids to navigation are reported on form #567.

12. Hydrographic Control

Topographic Stations were located in accordance with the instructions for this project.

13. Aeronautical Aids and Landing Fields

There are no Aeronautical Aids or Landing Fields within the limits of this quadrangle.

14. Roads Classification

All roads are classified in accordance with Photogrammetry Instructions No. 10, dated 14 April, 1947.

15. Bridges

There are no bridges over navigable waters within this quad.

16. Buildings and Structures .

These items are adequately covered on the photographs.

17. Boundaries

There are no boundaries to be located in this quadrangle. See Review Report.

18. Geographic Names

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

Submitted:

Emgr. Aid.

R. A. Horn

Photogrammetrist

Approved:

Riley J. Sipe Chief of Party

COMPILATION REPORT TO ACCOMPANY QUADRANGLE T-8733

26 AND 27. CONTROL AND RADIAL PLOT:

These are the subject of a special report to be submitted at a later date by Milton M. Slavney, Photogrammetric Engineer. On file Nine-lens photographs 16001, 16002, 15993 and 15994 were used

Nine-lens photographs 46001, 16002, 15993 and 15994 were used for delineation. The following photographs in adjoining quadrangles were used in establishing detail points: 15964 and 15965 in quadrangle. T-8725, 15995 in quadrangle T-8734 and 16021 in quadrangle T-8740. The photographs were of poor scale (approximately 1: 20,400) which required cutting in more detail points than usual.

The field inspection was satisfactory when consideration is given to the character of the terrain in this area. See paragraph 1 of Field Inspection Report.

The field inspector's symbolization of some areas has been questioned on the discrepancy overlay. This particularly applied to areas labeled "T.S." and which appeared photographically to be swamp.

29. SUPPLEMENTAL DATA:

None used.

30 AND 31. MEAN HIGH-WATER - LOW-WATER AND SHOAL LINES:

The entire shoreline of this quadrangle is apparent and has been so delineated by the compiler. See paragraph numbers 7 and 8 of Field Inspection Report.

32 AND 33. DETAILS OFFSHORE FROM THE HIGH-WATER LINE AND WHARVES AND SHORELINE STRUCTURES:

See paragraphs 9 and 10 of Field Inspection Report which cover these subjects adequately.

34. LANDMARKS AND AIDS TO NAVIGATION:

No landmarks exist within the limits of this quadrangle. Aids to navigation are reported on form No. 567.

35. HYDROGRAPHIC CONTROL:

Three recoverable topographic stations were established for the use of the hydrographer.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

No landing fields or aeronautical aids appear within the limits of this quadrangle.

37. CONTOURS:

Only the southern half of this quadrangle carried sufficient elevations for contours. These have been deline ated according to the field inspector's interpretation.

38. POLITICAL BOUNDARIES:

There are no boundaries to be located in this quadrangle, Dee review report

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 was made with U.S. Coast and Geodetic Survey Chart No. 1233, (Portsmouth Island to Beaufort) scale 1: 80,000, bearing a print date of 7 September 1946. No shoreline changes were noted.

Respectfully submitted,

Cartographer (Photo.)

Approved and Forwarded:

Ross A. Gilmore,

Chief of Party.

NOTES TO COMPILER QUADRANGLE T-8733 PROJECT Ph-5(45) SUB-PROJECT C

R. J. Sipe, Chief of Party

Much material previously submitted in descriptive reports, while of value in compiling sheets, has little value on a permanent record; therefore, such material has been excluded from the descriptive report and is presented as "Notes to Compiler". It is recommended that these notes be retained until final office review, after which time they may be destroyed.

1. <u>Horizontal Control</u>

Horizontal control station #224, which is CLAM-1913, is plotted within the limits of this quadrangle on the Pamlico Sound - Cape Hatteras Horizontal Control layout sheet. Upon investigation of this station it was found that the description in no way coincides with the area. Although the geographic position does not indicate it, this station falls outside the limits of this project, according to the description.

2. Stations to be Located by Radial Plot

Topographic Stations:

FRYD - 1947 GADD - 1947

Aids to Navigation to be located by Radial plot are as follows:

CEDAR ISLAND BAY LIGHT 5	(1	Pheodolite	Cuts	See form	24A)
TURNAGAIN BAY DAY BEACON	4	(Pricked	Direc		
TURNAGAIN BAY DAY BEACON	2	Ħ	11		8724)
TURNAGAIN BAY DAY BEACON	1	n	. 17	(Quad	8724)
THOROFARE WEST DAY BEACON		n .	. #		
THOROGARE WEST LIGHT		11	#		

Approved:

Submitted:

Riley J. Sipe Chief of Party. M. A. Stewart Engr. Aid.

R. A. Horn Photogrammetrist

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F COMMERCE DEPARTMENT

U. S. COAST AND SEODETIC SURVEY

NONFLOATING AIDS PRIVAPPRIME FOR CHARTS

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D BE CHARTED	8/时4/打柱/杜拉

Morehead City, N. C.

26 Aug.

_, 19.47

ue as landmarks be M their recommend that the following objects which have 9/4/4/16/1 been inspected from seaward to determine ted on 1/4/14/1/1/4/1 the charts indicated.

rted on (44/44/144) the charts indicated.

The positions given have been checked after listing by I.I. Saperstein, Tampa Photogrammetric of the positions given have been checked after listing by I.I. Saperstein, Tampa Photogrammetric of the positions given have been checked after listing by I.I. Saperstein, Tampa Photogrammetric of the positions given have been checked after listing by I.I. Saperstein, Tampa Photogrammetric of the positions of the positions given have been checked after listing by I.I. Saperstein, Tampa Photogrammetric of the positions given have been checked after listing by I.I. Saperstein, Tampa Photogrammetric of the positions given have been checked after listing by I.I. Saperstein, Tampa Photogrammetric of the positions given have been checked after listing by I.I. Saperstein, Tampa Photogrammetric of the positions given have been checked after listing by I.I. Saperstein, Tampa Photogrammetric of the positions given have been checked after listing by I.I. Saperstein, I.I.

CHARTS AFFECTED Chief of Party. 1233 1233 Ε Œ. 8 OFFSHORE CHART NEHOBE CHYBL 8 1 LOCATION 1947 19/4 DATE . Ľ. 1 Rad Plot T8733 METHOD OF OCATION AND SURVEY No. ad Plot T8724 Н ä Ш DATUM D, P, METERS , 995 272 7772 3 LONGITUDE POSITION 76 23 76 29 76 22 176 24 D. M, METERS 377 430 7 94 59 | 520 LATITUDE 65 99 99 0 34 34 34 34 SIGNAL These Bns. fall on T-8724 # (2) TURNAGAIN BAY DAY BEACON 4 DESCRIPTION THIORIOGRAPH MASH DAVE SEALCON TURNAGAIN BAY DAY BEACON THENDACATH RAY DAY REACON GEDAR ISLAND LIGHT 5 THEORY OF THE STATE OF THE STAT North Carolina CHARTING NAME STATE

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 JF COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED TOXBE DELETEDY

STRIKE OUT ONE

Temps Photogrammetric Office, Tamps, Fla. March 18 19,9 I recommend that the following objects which have (nave 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 indolph Dosset

Tampe Photogrammetric Office

Thorogane west light			*			POSITION						Chief of Party.
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	GEOGRAPHIC NAMES Survey No. 17-8733	/	<i>.</i>	or of the or	S. Mag.		Or toco Mod	O Cuide o	Mas Paralli	7. Signi	£ /
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	West Thorofare Bay					ļ.] r			11
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- .	Merkle Bay		_			_					16
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	Deep Bend						!				18
	Tump Point	<u> </u>	_								-19
	Tump Island	· <u> </u>		<u>-</u>				<u></u>	· 		20
•	West Bay	Wes	pen	ding v	1 th US	BGN: c	harted KFN	as Ce	dar I	Bay)	21
	Long Bay			7	زد	nal: July	, 14 41	LH			22
, •	Long Bay Point							•			23
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Ĵ	Swimming Point	-				,	· · · · · ·			!	25
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GEOGRAPHIC NAMES			Octobra Services	S. Walls	rige /		S. Carlos	West of the state	ALIOS
Survey No. T-873	3 /	Chor	Orevious	2 Mads	or redrigie	Or local Ma	Guide	of Wicks.	J.S.
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Fur Creek									
Stump Bear	,								
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FIELD EDIT REPORT QUADRANGLE T-8733 34°52.5 - 76°22.5/7.5' Project Ph5(45) Chief of Party E. R. McCarthy.

The field edit of this quadrangle was accomplished during January, 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

This quadrangle was inspected by truck, traversing all existing roads. All features added to the map compilation were located by planetable, or by measurement from topographic features. All deletions and additions were made directly on the field edit sheet, with a legend showing the meaning of each color ink used.

Three theodolite cuts were taken on the Thorofare West Daybeacon, and the Thorofare West Light. Three photo points were used, and are shown on photograph no.15994. A list of directions (Form 24A) is being submitted for each photo point.

47 ADEQUACY OF THE COMPILATION

The compilation of this quadrangle was adequate, except for a few details overlooked during field inspection. and additions made since. These features are shown on the field edit sheet.

48 ACCURACY TESTS

No accuracy tests were required for this quadrangle, but it is believed to comply with the horizontal and vertical accuracy specifications.

The map compilation was reviewed by Mr. Clayton Fulcher. Jr., of Atlantic, N. C. and Mr. Robie Salter, of Sealevel, N. C. They could find no errors.

Approved:

February 1949

· We Can

Chief of Party

Submitted:

February, 1949

E. T. Jenkins

Cartographer

Division of Photogrammetry Review Report of T-8733

26 Control

Five triangulation stations fall within the limits of this quadrangle (see form M-2388-12 attached to this descriptive report). Under Notes to Compiler, the statement concerning station CLAM, 1913 may be in reference to station CLAM, 1932, which falls in Pamlico County - nearly due north of CLAM, 1913 by approximately 20 minutes of latitude. The plotted position of CLAM, 1913 falls about 25 meters from the delineated shoreline in Turnagain Bay. Station CLAM is not shown on the map manuscript.

30. Mean High Water Line

Only one short portion of fast shoreline (East shore of Nelson Bay) may be found on the Quadrangle, the balance is apparent shore-

43. Comparison with Previous Surveys

1074 1277 1306 8044	(a and b)	1:20,000 1:20,000 1:20,000	1868 1872 1873
oouth		7:50,000	1942-45

45 Comparison with Nautical Charts

1233 420	1:80,000	1942 (9/1-47) 1947 (1/13-47)
	2.40,000	174/ (1/13-11)

47. Adequacy of the Compilation

An examination of map manuscript T-8733 reveals it to be complete in all details as a topographic quadrangle and as a base map for common area nautical charts and hydrographic surveys.

48 Accuracy Tests

Horizontal.

No horizontal accuracy test was made. The combination of adequate nine-lens photographic coverage, nine-lens radial plot methods and adequate horizontal control insures a horizontal accuracy equal to or better than the National Map Accuracy Standards.

Vertical:

No vertical accuracy test was deemed necessary for this quadrangle.

Accuracy statement:

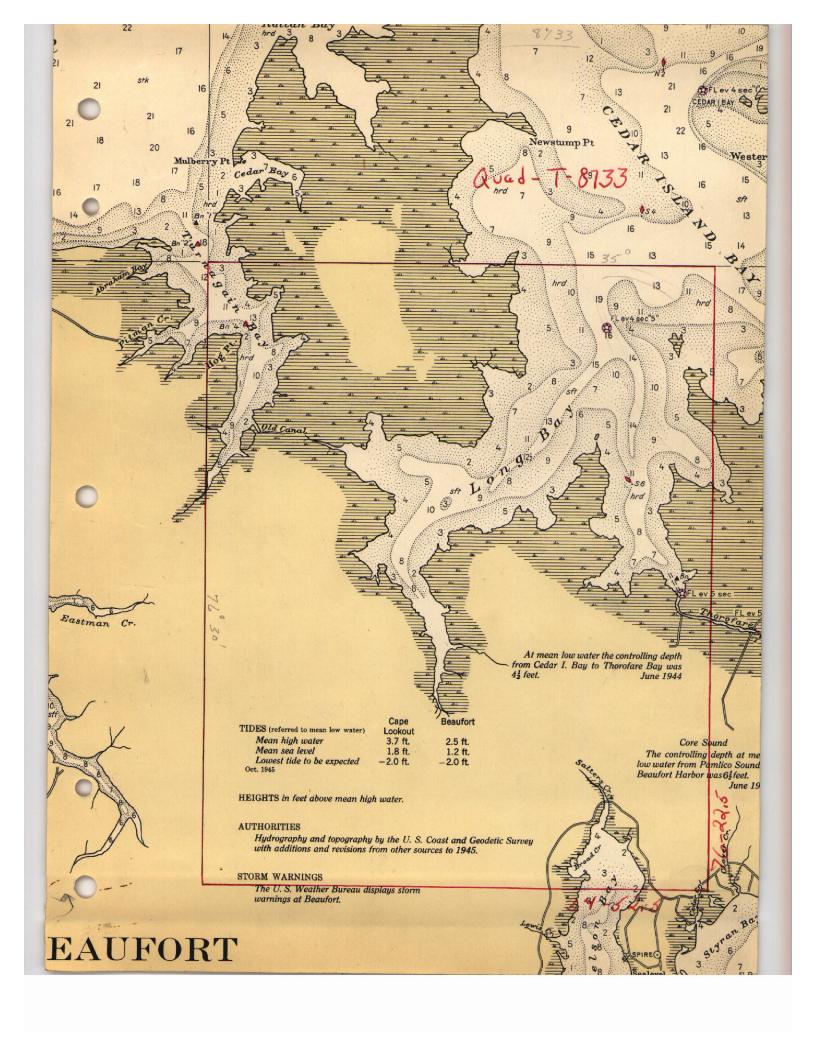
The published map will show the standard note regarding National Map Accuracy Requirements.

38. Political Boundaries of Merrimon, Hunting Quarter and Cedar Island Townships have been added to the map manuscript. BTH

Reviewed by:	
I. Streifler	
J. J. Streifler, 9 June 1949	
APPROVED BY:	
S. W. Guflith	Moduoustan
Chief, Review Section KIM. Div. of Photogrammetry	Chief, Nautical Chart Branch
	0.0
K.T. Adams	W.M. Scarke
Chief, Div. of Photogrammetry	Chief, Division of Coastal Surve

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

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

Color proof furnished by the Geological Survey and examined by Reme Date

₽,

Published by the Geological Survey.