

8725

Diag'd. on Diag. Ch. No. 1231

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-5-(45) Office No. T-8725

LOCALITY

State North Carolina

General locality Pamlico Sound

Locality Turnagain Bay to Big Swan Island

194 6-'47

CHIEF OF PARTY

R.J. Sipe

LIBRARY & ARCHIVES

DATE September 12, 1949

8725

9-25-69 Cht 419 Irene Beeler after Verification & Review
Fully Appd; No Corr

6-9-70 Cht 1231 Eric Tray after verification & review
fully appd via cht 1233 #28

DATA RECORD

T-8725

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. Ross A. Gilmore

Instructions dated (II III): Undated

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

Completed survey received in office:

3 Mar. 1949

Reported to Nautical Chart Section:

Reviewed: *11 April 1949* Applied to chart No.

Date:

Redrafting Completed:

Registered: *1 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): DAY, 1933

Lat.: 34° 59' 57" 502 (1772.0m) Long.: 76° 25' 30" 580 (775.5m) Adjusted
~~Unadjusted~~

State Plane Coordinates (VI):

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>
15921	1 Apr. 1946	12:49	1:20,000	There are no periodic tides in Pamlico Sound. The rise and fall of the water depends upon meteorological conditions.
15922	"	12:42	"	
15959	5 April 1946	13:24	"	
15964	"	13:39	"	
15965	"	13:39	"	

Tide from (III): See foregoing -

Mean Range:

Spring Range:

Camera: (Kind or source) 9" lens; 8 1/4" focal length

Field Inspection by: M. A. Stewart
R.A. Horn

date: 13-21 Aug. 1947

Field Edit by: *E. T. Jenkins*

date: *Jan. 1949*

Date of Mean High-Water Line Location (III): 18-21 August 1947

Projection and Grids ruled by (III) T.L.J. Wash. O.

date: 29 Oct. 1947

" " " checked by: H.D. W. " "

date: 29 Oct. 1947

Control plotted by: R.A. Reece

date: 25 Nov. 1947

Control checked by: B.F. Hampton

date: 25 Nov. 1947

Radial Plot by: M.M. Slavney

date: 2 March 1948

Detailed by: I.I. Saperstein

date: March 1948

Reviewed in compilation office by: J.A. Giles

date: March 1948

~~Map Manuscript~~
Elevations on ~~field notes~~
checked by: J.A. Giles

date: March 1948

STATISTICS (III)

Land Area (Sq. Statute Miles): 10.8

Shoreline (More than 200 meters to opposite shore): 14.8 Statute miles

Shoreline (Less than 200 meters to opposite shore): 1.2 Statute miles

Number of Recoverable Topographic Stations established: 4

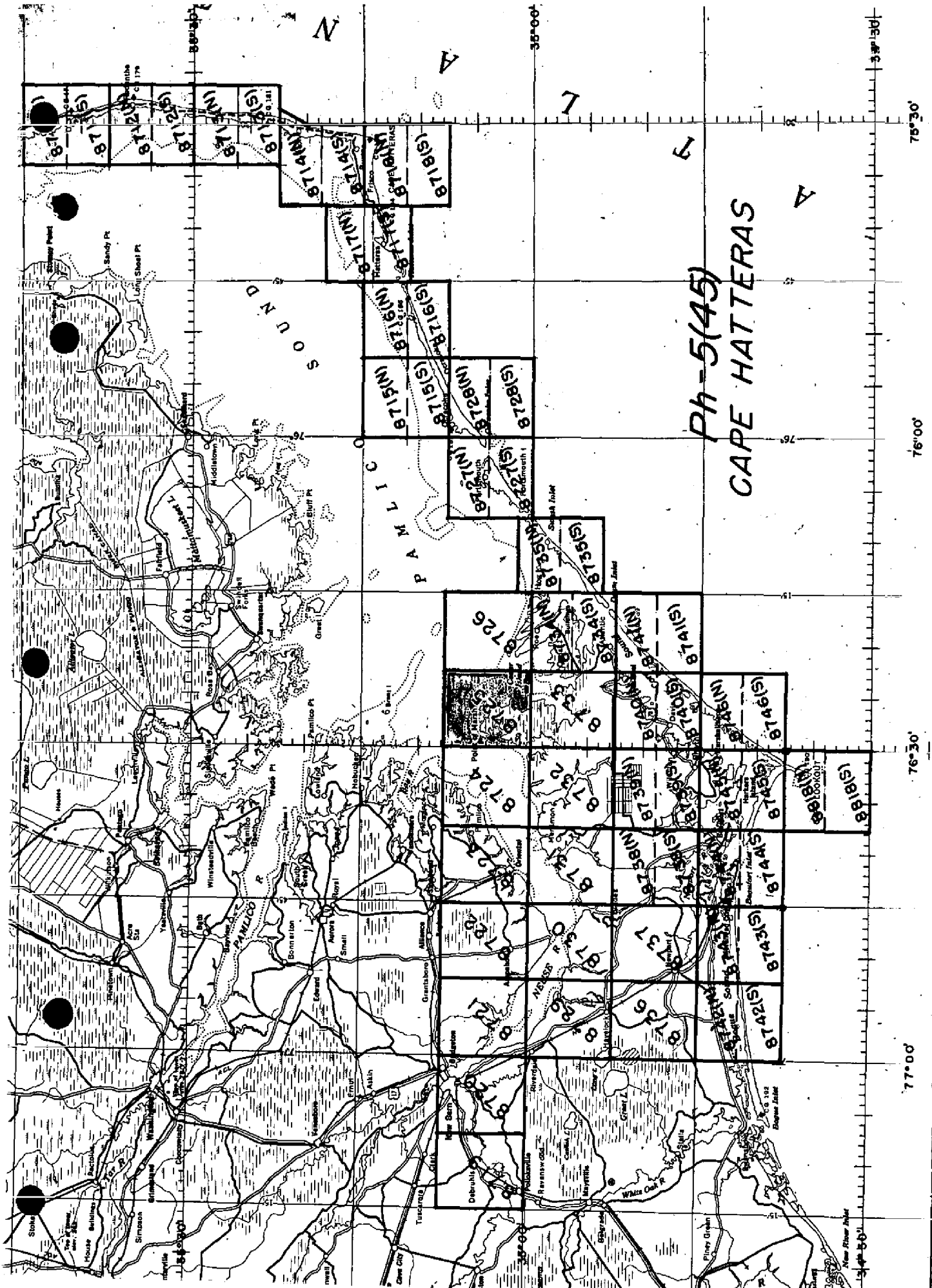
Photo-hydro
Number of ~~Temporary Hydrographic~~ Stations located by radial
plot: None

Leveling (to control contours) - miles: 0.75

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

77°00'

76°30'

76°00'

75°30'

N

A

7

E

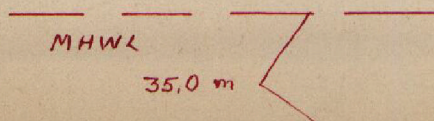
A

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

MEAN HIGH WATER LINE (fast Land).....	<u>3 mm minimum</u>
OFFSHORE EDGE OF MARSH (apparent shoreline).....	<u>3 mm minimum</u>
GRASS IN WATER.....	<u>Grass</u>
MEAN LOW WATER LINE (approximate).....
MEAN LOW WATER LINE (definite).....
INSHORE EDGE OF MARSH.....
INTERMITTANT DRAINAGE.....
PERENNIAL DRAINAGE.....
CONTOURS.....	<u>10</u> or <u>10</u>
PLANE TABLE ELEVATIONS.....	<u>X 16</u> or <u>X 16</u>
FLY LEVEL ELEVATIONS.....	<u>CE 10</u> <u>9.6</u>
BENCH MARKS.....	<u>5231 1947</u> <u>Elev. 11.43</u>
TOPO STATIONS (arbitrarily assigned name).....	<u>SALE 1947</u>
TOPO STATIONS (natural name).....	<u>PIDGEON 1947</u>
TOPO STATIONS (additional Hydro Control, not named).....	<u># 4506</u>
LANDMARKS.....	<u>Landmark</u> <u>TANK (metal) elev. (55 ft high)</u>
TRIANGULATION STATIONS.....	<u>Δ MINK 1933</u>
SUBSTITUTE STATIONS.....	<u>S. Sta Δ MINK 1933</u>
BOUNDARIES (from U.S.G.S. Bulletin 788 E.....	
National, State.....
County.....
Civil Township, District, Precinct, etc.....
Reservation.....
City, Village.....
Cemetery, small park, etc.....

NOTE:

Shoreline should never be inked completely. At a point of detail from which a measurement to HWL is made the symbol should be used thus:



FIELD INSPECTION REPORT
T-8725 (35°00 / 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 work on this quadrangle was accomplished by the following:

<u>Name & Title</u>	<u>Field Work</u>	<u>Dates</u>
M. A. Stewart	Contours & Interior	8-13-47
Engr. Aid	Inspection	8-15-47
R. A. Horn	Shoreline & Recovery	8-18-47
Photogrammetrist		8-21-47

1. Description of Area

The land area of this quadrangle is mostly Marsh, with the exception of one small area of fast land, covered with trees and brush, known as Piney Island.

2. Completeness of Field Inspection

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

3. Interpretation of the Photographs

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

4. Horizontal Control

All horizontal control stations were searched for in this quadrangle. A limited number were recovered and identified. Due to extensive erosion and destructive wave action many of the stations have been lost.

5. Vertical Control

Due to the nature of the land (Low and Flat), no vertical control was established in this quadrangle.

Mean water level was used for determining elevation by planetable.

6. Contours & Drainage

Contouring was done on 1:20,000 scale photographs. Mean water level was used and the highest elevation was below the 5 foot contour. No definite drainage exists in this quad.

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

Low water line was located only at those points that were visited at low tide, and in sections that it was discernible on the photographs.

9. Wharves and Shoreline Structures

There are no wharves or shoreline structures in this quadrangle.

10. Details Off-shore from High Water Line

No details offshore were noted.

11. Landmarks and Aids to Navigation

No landmarks exist within the limits of this quadrangle.

12. Hydrographic Control

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

Two natural objects exist in the quadrangle, one of which was picked direct as a topographic station. This station is Cedar Island Bay Light "1".

13. Aeronautical Aids & Landing Fields

There are no aeronautical aids or landing fields within this quadrangle.

14. Roads Classification

There are no roads in this quadrangle.

15. Bridges

There are no bridges in this quadrangle.

16. Buildings & Structures

There are no buildings in this quad.

17. Boundaries

There are no boundaries located in this quadrangle.

18. Geographic Names

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

Submitted:

M. A. Stewart
M. A. Stewart ^{CHV.}
Engr. Aid

R. A. Horn
R. A. Horn
Photogrammetrist

Approved and forwarded:

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

Compilation Report
DESCRIPTIVE REPORT
TO
ACCOMPANY QUADRANGLE T-8725

26 AND 27 CONTROL AND RADIAL PLOT:

A special report will be submitted by M.M. Slavney, Photogrammetric Engineer, at a later date.

It is to be noted that triangulation station "DAY 1933" was used as reference station on the data sheet although the station fell south of the quadrangle. There are no existing triangulation stations within the limits of the quadrangle.

28. DELINEATING:

The field inspection was adequate for delineation of the manuscript.

The scale of the photographs was fair. Additional detail points were cut in to supplement the pass points, especially along the shoreline.

No difficulty was encountered in delineating the manuscript

All topographic stations were cut in radially and form 524 is being submitted for each station.

*Div of Photogrammetry
General Files.*

There are no contours in the quadrangle, the highest elevation being 3 feet.

SUPPLEMENTAL DATA:

None was used.

30. MEAN HIGH-WATER LINE:

There are only two stretches of hard and fast shoreline. They were shown with a heavy line on the manuscript. The remainder of the shoreline represents the outer limits of vegetation and is shown in lieu of the actual mean high-water line.

All shoreline was delineated from the field inspector's notes on the field photographs.

31. LOW WATER AND SHOAL LINES:

The low-water line was shown on the map manuscript according to the field inspector's notes.

Two shoal areas were shown on the manuscript, there being a definite abrupt change in depth discernible from the photograph.

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

There are no offshore details that need investigation by the hydrographic party.

33. WHARVES AND SHORELINE STRUCTURES:

There are no wharves or shoreline structures within the limits of the quadrangle.

34. LANDMARKS AND AIDS TO NAVIGATION:

There are no landmarks within the limits of this quadrangle.

Two fixed aids to navigation were located by the field party, as follows:

1. Cedar Island Bay Lt. 1: Pricked direct on field photograph 15964. This aid was pricked on the office photographs and cut in radially.
2. Point of Marsh Lt. Located by theodolite cuts in the field and angles were plotted directly on the manuscript.

*Filed in Div. of
Charts. Copies
attached to
this report.*

35. HYDROGRAPHIC CONTROL:

Hydrographic stations were not located for this quadrangle.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

There are no landing fields or aeronautical aids within the limits of this quadrangle.

37. GEOGRAPHIC NAMES:

A geographic name sheet was sent from the Washington Office. The names thereon have been applied to the map manuscript.

*Approved
list of names attached
to this report.*

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

There are no topographic quadrangles available in this office for comparison.

45. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with chart 1231 bearing a print date of 5 October 1946.

The only consequential change appears in the Swan Islands. The southernmost island of this group has been eroded to the extent that it is now much smaller than shown on the chart. The small island between Big Swan Island and Little Swan Island has disappeared completely.

The remainder of the quadrangle is in good agreement with the chart.

Respectfully submitted,

I. I. Saperstein

I. I. Saperstein,
Photo. Aid

Approved and Forwarded:

Ross A. Gilmore

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

Morehead City, N. C.

26 August, 1947

I recommend that the following objects which have ~~not 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 ~~Irving I. Saperstein~~ *Irving I. Saperstein*, Engr. Aid

Raymond J. Sipe

Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE		LONGITUDE									
			°	'	D. M. METERS	°	'	D. P. METERS						
CEDAR ISLAND BAY LIGHT 1 POINT OF MARSH LIGHT	North Carolina		35 02		152	76 22	1137	N.A. T8725	1947	X			419 1231-1233	
			35 06		1230	76 28	902	"	"	"	"	1231-1233		

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

TO BE CHARTED
TO BE DELETED
STRIKE OUT ONE

Tampa, Fla.

July 14, 1948

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

The positions given have been checked after listing by Jesse A. Giles,
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.

GEOGRAPHIC NAMES

Survey No. T-8725

GEOGRAPHIC NAMES		Survey No. T-8725									
2	Name on Survey	On Chart	On previous survey	On U. S. quadrangle	From local	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
		No.	No.	Maps	information						
A	B	C	D	E	F	G	H	K			
	Point of Marsh Light									1	
	a									2	
	Rattan Spit									3	
	North Bay									4	
	Rattan Bay									5	
	East Bay									6	
	Hammock Point									7	
	South Bay									8	
	Westward Point									9	
	Little Creek									10	
	Cedar Bay Point								USCB	11	
	Cedar Bay									12	
	Mulberry Point									13	
	Mulberry Point Creek									14	
	Turnagain Bay									15	
	Tump Gut									16	
										17	
										18	
										19	
										20	
										21	
										22	
										23	
										24	
										25	
										26	
										27	
										28	
										29	
										30	
										31	
										32	
										33	
										34	
										35	
										36	
										37	
										38	
										39	
										40	
										41	
										42	
										43	
										44	
										45	
										46	
										47	
										48	
										49	
										50	
										51	
										52	
										53	
										54	
										55	
										56	
										57	
										58	
										59	
										60	
										61	
										62	
										63	
										64	
										65	
										66	
										67	
										68	
										69	
										70	
										71	
										72	
										73	
										74	
										75	
										76	
										77	
										78	
										79	
										80	
										81	
										82	
										83	
										84	
										85	
										86	
										87	
										88	
										89	
										90	
										91	
										92	
										93	
										94	
										95	
										96	
										97	
										98	
										99	
										100	

Names underlined in red are approved. Based on Wraight's report and confirmed by field edit. 3/17/49

✓

FIELD EDIT REPORT
Quadrangle T-8725
Project Ph-5(45)B
(35-00.0 /76-22.5/7.5)

Riley J. Sipe, Chief of Party

The field edit of this quadrangle was completed during January 1949 by E. T. Jenkins, Cartographer. Field edit was performed in accordance with Field Edit Instructions dated 24th August 1945 and Supplement # 1 dated 4 February 1946.

46. METHODS

There are no roads, building or contours in this quadrangle. The map compilation was visually examined, and deletions and additions shown on the discrepancy print, with a legend explaining the meaning of each color of ink used. One additional theodolite cut was taken on POINT OF MARSH LIGHT.

47. ADEQUACY OF THE COMPILATION

The map compilation was adequate and complete, with the exception of one area where a M.L.W.L. was shown; this line should be deleted.

48. ACCURACY TESTS

No accuracy test was required for this quadrangle, but it is believed to comply with the required standards of accuracy.

The map compilation was examined by Messrs. Daily Nelson, I. S. Morris and Roby Fulcher, residents of Atlantic, N.C. for the past 40 years. They could find no errors.

Submitted:
26 January 1949

E. T. Jenkins
E. T. Jenkins
Cartographer

Approved:
26 January 1949

Riley J. Sipe
Riley J. Sipe
Chief of Party

DIVISION OF PHOTOGRAMMETRY
Review Report of
Topographic Map Manuscript 4-8725

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

26 Control

Two triangulation stations fall within the limits of this quadrangle (Point 3, P.M. 1, 1932 and Swan C, R.M. 2, 1932).

30 Mean High Water Line

There are only two short portions of fast shoreline on this quadrangle. The remainder, being the outer limit of vegetation, ~~which~~ is subject to continual change.

43 Comparison with Previous Surveys

1074\	1:20,000	1878
1277s	1:20,000	1872
3822	1:20,000	1920

45 Comparison with Nautical Charts

1231	1:80,000	1938(5/10-48)
1233	1:80,000	1942(9/1-47)

47 Adequacy of the Compilation

An examination of map manuscript 4-8725 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 accurate horizontal control insures a horizontal accuracy equal to or better than the National Map Accuracy Standards.

The unstable shoreline makes the accuracy of detailing applicable only as of the date of photography, supplemented by field inspection.

Vertical

No vertical accuracy test was made. There are no contours

Topographic Map Manuscript T-8725 - - - - Page 2

shown within the limits of this quadrangle since the maximum ground elevation is only 3 feet (The required contour interval for this project is 5 feet).

Accuracy Statement

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

51. Application to Nautical Charts

This map manuscript has not been applied to nautical charts 1231 and 1233 as of the date of this review report.

Reviewed by:

J. J. Streifler
J. J. Streifler, 4-11-49

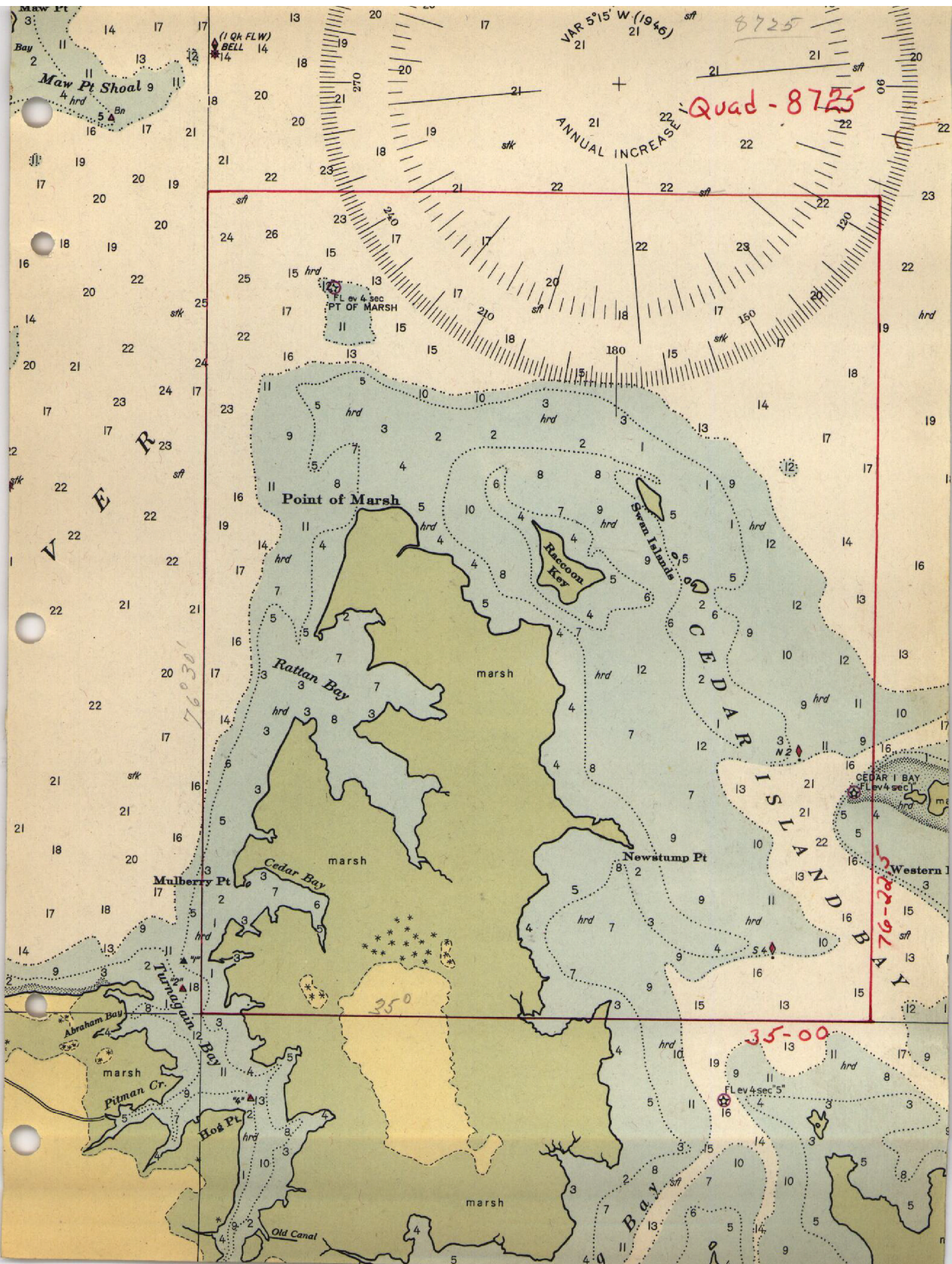
APPROVED BY

A. V. Griffith
Chief, Rev. Section
Div. of Photogrammetry

H. Edmanson
Chief, Nautical Chart Branch
Division of Charts

K. T. Adams
Chief, Division of Photogrammetry

W. M. Scaife
Chief, Div. of Coastal Surveys



T-8725

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 _____, _____
Name Date

Published by the Geological Survey.