

# 8997

ORIGINAL

Brant Island

Diag. Cht. No. 1231-2

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey **TOPOGRAPHIC**

Field No. .... Office No. **T-8997**

#### LOCALITY

State **North Carolina**

General locality **Pamlico County**

Locality **Brant Island**

**19450**

#### CHIEF OF PARTY

**Riley J. Sipe, Chief of Field Party**

**Ross A. Gilmore, Tampa Photogrammetric Office**

#### LIBRARY & ARCHIVES

DATE **July 18, 1950**

B-1870-1 (1)

# 2668

DATA RECORD

T 8997

Project No. (II): (Ph-20(47)      Quadrangle Name (IV):

Field Office (II): Washington, N.C.

Chief of Party: Riley J. Sipe

Photogrammetric Office (III): Tampa, Fla.

Officer-in-Charge: Ross A. Gilmore

Instructions dated (II) (III): 23 July 1948

Copy filed in Division of  
Photogrammetry (IV) *Office Files*

Method of Compilation (III): Graphic

Manuscript Scale (III): 1: 20,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): None

Date received in Washington Office (IV): 2-13-50      Date reported to Nautical Chart Branch (IV): 2-16-50

Applied to Chart No. \_\_\_\_\_

Date: \_\_\_\_\_

Date registered (IV): 6/14/50

Publication Scale (IV): 1:24,000

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows:  
Elevations shown as (25) refer to mean high water  
Elevations shown as (5) refer to sounding datum  
i.e., mean low water or mean lower low water

Reference Station (III): SOW, 1932

Lat.: 35° 13' 10.067" (310.2m)

Long.: 76° 29' 28.790" (728.1m)

Adjusted  
~~Unadjusted~~

Plane Coordinates (IV):

State:

Zone:

Y= *North Carolina State Grid*      X=

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

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





DATA RECORD

Field Inspection by (II): E.L. Williams

Date: July 1948

Planetable contouring by (II): No contours

Date:

Completion Surveys by (II): None

Date:

Mean High Water Location (III) (State date and method of location): July 1948

Air Photo Compilation

Projection and Grids ruled by (IV): T.L.J. ( W.O.)

Date: June 9, 1948

Projection and Grids checked by (IV): T.L.J. (W.O.)

Date: June 9, 1948

Control plotted by (III): R.R. Wagner

Date: Sept. 29, 1948

Control checked by (III): B.F. Lampton

Date: Oct. 8, 1948

Radial Plot or Stereoscopic

Date: Dec. 20, 1948

Control extension by (III): M.M. Slavney

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): J.C. Richter

Date: Dec. 1948

Photogrammetric Office Review by (III): J.A. Giles

Date: Jan. 1949

Elevations on Manuscript

checked by (II) (III): None

Date:



Camera (kind or source) (III): Nine-lens U. S. Coast & Geodetic Survey

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
22335	3-30-48	Clock	1: 20,000	No periodic
22336	3-30-48	stopped	1: 20,000	<u>tide</u>

'48

Tide (III)

Reference Station: NO PERIODIC TIDE in this case  
 Subordinate Station:  
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV): B. Thomas Hynson

Date: 2/21/50

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

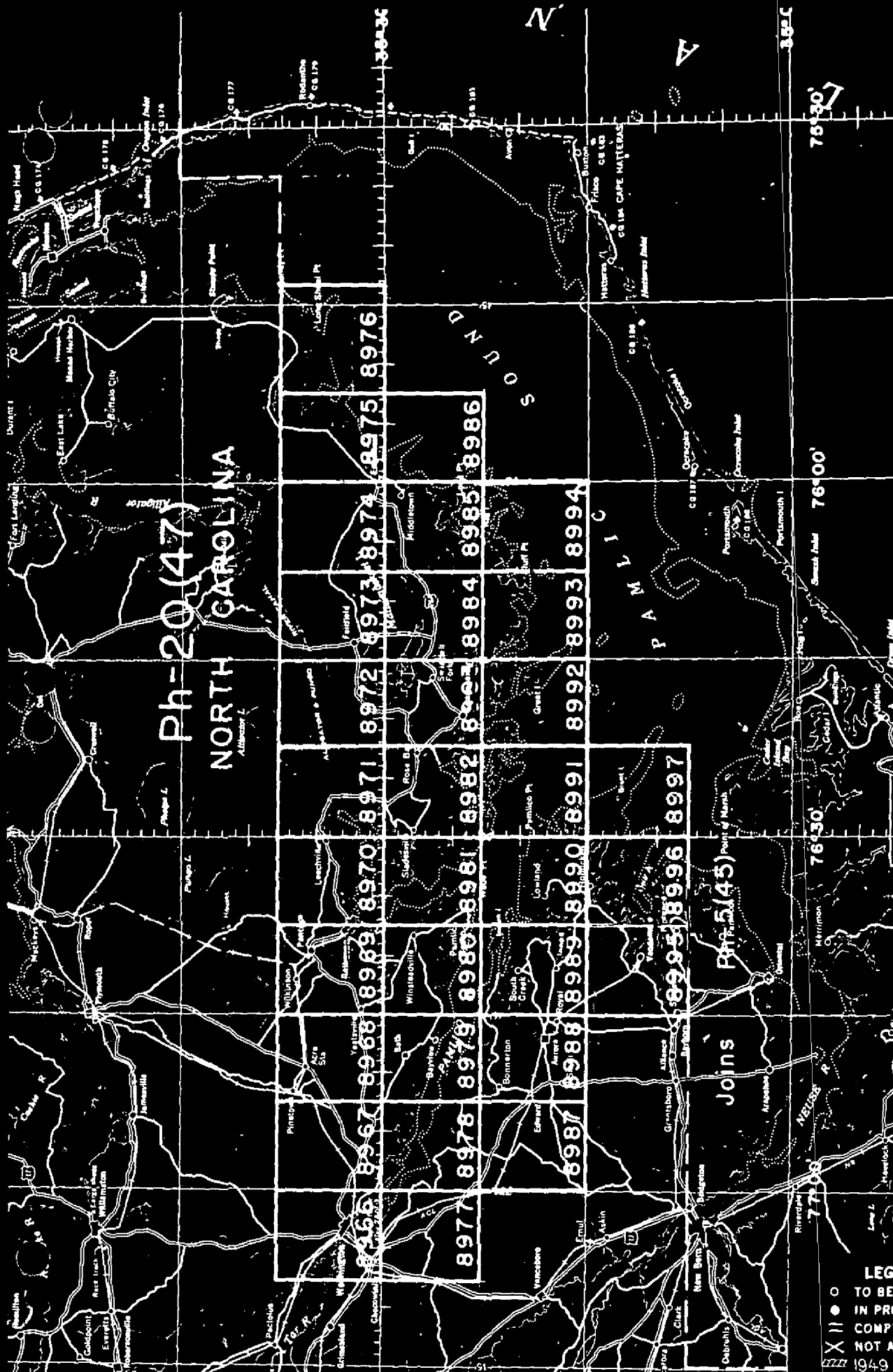
Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 0.5  
 Shoreline (More than 200 meters to opposite shore) (III): 5.8  
 Shoreline (Less than 200 meters to opposite shore) (III): None  
 Control Leveling - Miles (II): None  
 Number of Triangulation Stations searched for (II): 6  
 Number of BMs searched for (II): None  
 Number of Recoverable Photo Stations established (III): 2  
 Number of Temporary Photo Hydro Stations established (III): None

Recovered: 3  
 Identified: 3  
 Recovered: 0  
 Identified: 0

Remarks:





6.

Summary Report to Accompany T-8997

Topographic map T-8997 is one of 32 standard 7½ minute maps in Project Ph-20(47) and is located along the northern junction of Ph-5. It is the most easterly of the three quadrangles that join Ph-5. It covers a large water area, part of Pamlico Sound, Brant Island and part of Goose Creek Island.

This is a planetable contouring project.      ←x

The several mapping operations were:

- (a) 9-lens aerial photography and laboratory processing, 1:20,000 scale
- (b) The field survey including identification of shoreline, identification and establishment of horizontal control, classification of photographic detail and geographic names investigation. No vertical control was established and no planetable contouring was done as the highest ground elevation was three feet.
- (c) Compilation by graphic methods.
- (d) Final review of the map manuscript to ensure completeness and conformance with specifications. There was no field edit since so little land area was covered.      ←x
- (e) Processing  
A 1:20,000 scale glass plate negative will be prepared for transmittal to the Geological Survey.

T-8997 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-8997 will be filed and may be obtained as follows:

- (a) Filed in the Division of Photogrammetry
  - (1) T-8997 map manuscript, scale 1:20,000, final review corrections applied.
- (b) Filed in the Coast and Geodetic Survey Archives
  - (1) Descriptive Report
  - (2) 1:20,000 scale cloth mounted lithographic print of map manuscript T-8997.
  - (3) The above print is to be permanently registered under T-8997 and when T-8997 is published, a cloth-backed copy of the published map, at a scale of 1:24,000 will also be registered.



FIELD INSPECTION REPORT  
 Quadrangle T-8997  
 (35 - 07.5/76 - 22.5/7.5)  
 Project Ph-20(47)  
 Riley J. Sipe, Chief Of Party

The field work for this quadrangle was done in accordance with the Director's Instructions Project Ph-20(47), Field, dated 23 July 1948 and other instructions as noted herein. The field work was accomplished by the following personnel:

<u>Name &amp; Title</u>	<u>Phase</u>	<u>Date</u>
E. L. Williams Engr. Aid	Horizontal Control Recovery	June, 1948
	Shoreline and Field Inspection	July, 1948

1. DESCRIPTION OF THE AREA:

This  $7\frac{1}{2}$  minute quadrangle is located within Pamlico County, ~~North~~ <sup>and Carteret.</sup> North Carolina. Brant Island, about 3 miles from the nearest land and centrally located in the quadrangle, has an area of about 0.23 square mile. During World War II, the island was used as an aerial bombing target and since then erosion has increased rapidly. The island is marshy with two (2) ponds in the middle and low sandy ridges scattered along the shore line. Fishermen take advantage of the lee side of the island and duck and goose hunters use it in season. Other than that it is unvisited and uninhabited.

The remainder of the land area is in the north western corner of the quadrangle. It consists of Sow Island Point and Middle Bay Pt. and has an area of about 1.0 square mile, all of which is marsh.

The Old Sow is a small marshy island lying about 0.4 mile east of Sow Island Pt. It, also, has eroded considerably in the past five years.

Terrapin Island has been completely destroyed by erosion in the past few years. Fishermen know the area as Terrapin Island and state that a mud bottom covered by 18 inches of water is gradually being covered with sand.



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2. COMPLETENESS OF FIELD INSPECTION:

Field inspection of the quadrangle is complete and all features are adequately classified and identified on the photographs.

3. INTERPRETATION OF THE PHOTOGRAPHS:

The photographs were easily interpreted and no difficulties were encountered.

4. HORIZONTAL CONTROL:

All known horizontal control was searched for within the quadrangle and a report submitted on Form 526 for each control station.

5. VERTICAL CONTROL:

The entire land area of the quadrangle is marsh with a few low sandy ridges scattered along the shoreline. No fly levels were run in the quadrangle. Elevations of the highest points were determined by hand level from the water level.

6. CONTOURS AND DRAINAGE:

The highest point in the quadrangle is 3.0 feet. Consequently there are no five foot contours and no drainage. ← +

7. MEAN HIGH-WATER LINE:

There is no mean high-water line. All shoreline is apparent and as photographed.

8. LOW-WATER LINE:

Mean low-water line is the same as apparent shoreline because there is no periodic tide.

9. WHARVES AND SHORELINE STRUCTURES:

There are no wharves or shoreline structures in the quadrangle.

10. DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

There were no offshore details visible during this inspection.



11. LANDMARKS AND AIDS TO NAVIGATION:

There is only one fixed aid within the quadrangle limits, which is Brant Island Slue Light. This light was located by theodolite cuts and reported on Form 567. (See descriptive report T-8995). It is believed that the position of Brant Island Slue Light is the same as triangulation station Slue Bn. 1933.

*Slue Bn. 1933 has been destroyed. BTA*  
There are no landmarks within the quadrangle.

12. HYDROGRAPHIC CONTROL:

No hydrographic control was established in this quadrangle. It is believed that a sufficient amount of triangulation and other control is available for hydrographic control.

13. LANDING FIELDS AND AERONAUTICAL AIDS:

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

14. ROAD CLASSIFICATION:

There are no roads in this quadrangle.

15. BRIDGES:

There are no bridges in this quadrangle.

16. BUILDINGS AND STRUCTURES:

There are no buildings or structures within the quadrangle.

17. BOUNDARY MONUMENTS AND LINES:

There are no boundary monuments or lines within the quadrangle.

For the legal descriptions of all boundaries in this project, see Special Boundary Report by Wilber H. Nelson which will be submitted at a later date. *Filed in Div. Photogr. General Files*

18. GEOGRAPHIC NAMES:

This will be the subject of a special report which will be submitted by Wilber H. Nelson at a later date.

*See attached list of approved names.*

*The Pamlico County and Carteret County line crosses the SE corner of quad. SWA.R.*

*See review report*



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19. TOPOGRAPHIC STATIONS:

Two topographic stations were established in the quadrangle;  
Fort, 1948 and ARTO, 1948.

Date: 7-13-48

Submitted:

*E. L. Williams*

E. L. Williams

Engr. Aid

Date:

Approved By:

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

## COMPILATION REPORT, T-8997

PHOTOGRAMMETRIC PLOT REPORT

This report is submitted with Descriptive Report for T-8996.

31. DELINEATION:

The graphic method was used in delineating the manuscript.

The photographs and field inspection were adequate for the delineation of this manuscript.

32. CONTROL

Sufficient control was provided to cut in necessary detail points. All control was positively identified and well placed.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

See Item 6 of Field Inspection Report.

35. SHORELINE AND ALONGSHORE DETAILS

No difficulty was encountered in the delineation of these features.

Shoreline inspection was adequate.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

The one nonfloating aid was located by the list of directions submitted by the field party. This aid is located approximately 50 meters southeast of triangulation station BLUE BEACON, 1933 (Reference Item 11 of Field Inspection Report).

38. CONTROL FOR FUTURE SURVEYS

Two cards Form 524 are submitted herewith and are listed in Item 49. *Filed in Div. Photogr. General Files.*



Topographic station FORT, 1948 was located by radial plot methods and station ARTO, 1948 is a computed position.

39. JUNCTIONS

Junctions with T-8996 on the west is in good agreement. Delineation of T-8991 has not begun as of the date of this report. Pamlico Sound borders on south and east boundary. *See Review Report, item 69.*

40. HORIZONTAL AND VERTICAL ACCURACY

No statement necessary.

46. COMPARISON WITH EXISTING MAPS

No topographic quadrangles are available for this area.

A comparison was made with Planimetric Map No. T-5560, scale 1: 10,000 and compiled in 1935; all features were found to be in good agreement.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with U. S. C. & G.S. Nautical Chart No. 1231, scale 1: 80,000, published 1938 (8th Edition) and bearing a print date of May 10, 1948.

The planimetric map listed under Item 46 was the source of the planimetry on the nautical chart from longitude  $76^{\circ} 28.7'$  westward and the same statement under that item applies.

Eastward from longitude  $76^{\circ} 28.7'$ , Brant Island is the only land feature now existing. The three small islands shown on the nautical chart just north of Brant Island no longer exist and neither does Terrapin Island. (Reference Item 1 of Field Inspection Report).

*John C. Richter*  
John C. Richter  
Carto. Draftsman

Approved and Forwarded:

*Ross A. Gilmore*  
Ross A. Gilmore, 1/31/50  
Chief of Party.

*Item 49 follows this page*

49. NOTES FOR THE HYDROGRAPHER

The following topographic stations are usable for hydrographic control:

ARTO, 1948  
FORT, 1948



## .50 PHOTOGRAMMETRIC OFFICE REVIEW

T- 8997

1. Projection and grids J.G. 2. Title J.G. 3. Manuscript numbers J.G. 4. Manuscript size J.G.

## CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy M.M.S. 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) J.G. 7. ~~Photo hydro stations~~ J.G. 8. ~~Photo hydro stations~~ J.G. 9. Plotting of sextant fixes J.G. 10. Photogrammetric plot report J.G. 11. Detail points J.G.

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline J.G. 13. ~~Low-water line~~ None J.G. 14. Rocks, shoals, etc. J.G. 15. ~~Other alongshore physical features~~ J.G. 16. Aids to navigation J.G. 17. ~~Landmarks~~ J.G. 18. Other alongshore physical features J.G. 19. ~~Other alongshore physical features~~ J.G.

## PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. ~~Planetable contours~~ J.G. 23. ~~Stereoscopic instrument contours~~ J.G. 24. ~~Contours in general~~ J.G. 25. ~~Spot elevations~~ J.G. 26. Other physical features J.G.

## CULTURAL FEATURES

27. ~~Buildings~~ J.G. 28. ~~Buildings~~ J.G. 29. ~~Buildings~~ J.G. 30. ~~Other cultural features~~ J.G.

## BOUNDARIES

31. Boundary lines J.G. 32. ~~Boundaries~~ J.G.

## MISCELLANEOUS

33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of the manuscript J.G. 36. ~~Other miscellaneous~~ J.G. 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G. 40. Jesse A. Giles William A. Rasure  
Reviewer Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

## FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

\_\_\_\_\_  
Compiler\_\_\_\_\_  
Supervisor

43. Remarks:

No field completion survey made.  
See review report  
summary

M-2661-12

## PHOTOCOPYABLE TO REVIEW SECTION

# NONFLOATING AIDS OR LANDMARKS FOR CHARTS

**STRIKE OUT ONE**

Washington, D. C.

13 July \_\_\_\_\_, 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 from)~~ the charts indicated.

The positions given have been checked after listing by

**Robert R. Wagner**

**Tampa Photogrammetric Office**

**Biley J. Sine** *Chief of Party.*

**North Carolina**

**Brant Island Blue Light**

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *unfloating 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

48. GEOGRAPHIC NAME LIST

- ° BIG FISHING POINT ✓
- ° BIG OYSTER CREEK ✓
- ° BRANT ISLAND ✓
- ° BRANT SHOAL ✕
- ° CANAL POINT ✓
- ° DEEP POINT ✓
- ° FISHING BAY ✓
- ° LITTLE FISHING BAY ✓
- ° LITTLE FISHING POINT ✓
- ° MIDDLE BAY ✓
- ° MIDDLE BAY POINT ✓
- ° OYSTER CREEK POINT ✓
- ° PAMLICO SOUND ✓
- ° SOW ISLAND ✓
- ° SOW ISLAND POINT ✓
- ° NORTH CAROLINA\* ✓

## ° Pamlico County ✓

° Twp 2 ✓

° Twp 3 ✓

° Twp 4 ✓

✕ = Decis. BGN

° = Approved name

## ° Carteret County ✓

° Hunting Quarters Twp. ✓

° Cedar Island Twp. ✓

2-20-50

A. J. W.



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Review Report T-8997  
Topographic Map  
21 February 1950

62. Comparison with Registered Topographic Surveys:

1095	1869	1:20,000
5560	1935	1:10,000

The above topographic surveys are superseded in common areas for the purpose of nautical charting by T-8997.

63. Comparison with Maps of Other Agencies: None

64. Comparison with Contemporary Hydrographic Surveys: None

65. Comparison with Nautical Charts:

1231	1938	1:80,000
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66. Adequacy of Results and Future Surveys.--This map complies with the project instructions and Bureau Policy. There are no inadequacies. The map complies with the National Standards of Accuracy.

67. Boundaries.--The township boundary between Hunting Quarter and Cedar Island Townships, Carteret County, has been added to the manuscript.

69. Junctions.--No junction was made with T-8991 to the north as it was not available at the time of review.

Reviewed by:

B. Thomas Hynson  
B. Thomas Hynson

APPROVED BY:

S. V. Griffith  
Chief, Review Section T-4.1a.  
Division of Photogrammetry

J. H. Edmonson  
Chief, Nautical Chart Branch  
Division of Charts

O. S. Reading  
Chief, Div. of Photogrammetry

W. M. Acaife  
Chief, Div. Coastal Surveys

## HISTORY OF HYDROGRAPHIC INFORMATION

T-8997, North Carolina

Hydrography was applied to this manuscript in accordance with Division of Photogrammetry request of February 24, 1950, and with general specifications of May 18, 1949.

The depths are in feet at mean low water and originate with the following surveys and charts:

Hydrographic Survey 1083 (1866-70)	1:40,000
Hydrographic Survey 1010 (1869)	1:20,000
Hydrographic Survey 1227 (1874)	1:40,000
Hydrographic Survey 3534 (1913)	1:20,000
Hydrographic Survey 4149 (1920)	1:20,000
Nautical Chart 1231 (1950)	1:80,000 (corrected to 5/1/50)

Bottom contours are shown at 6, 12, and 18 feet.

The hydrography was compiled by R. E. Elkins and checked by R. H. Carstens.

*R. E. Elkins*

R. E. Elkins

5/8/50

Nautical Chart Branch