

8991

Diag. Cht. No. 1110 & 1231-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. Ph-20(47) Office No. T-8991

LOCALITY

State NORTH CAROLINA

General locality PAMLICO SOUND

Locality JUDITH ISLAND

194/ 51

CHIEF OF PARTY

E.R. McCarthy, Chief of Party

A.L. Wardwell, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE August 4, 1953

1668

DATA RECORD

T- 8991

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

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

Chief of Party: E. R. McCarthy

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: Arthur L. Wardwell

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): Inapplicable

Scale Factor (III): None

Date received in Washington Office (IV):

OCT 24 1950

Date reported to Nautical Chart Branch (IV):

OCT 30 1950

Applied to Chart No.

Date:

Date registered (IV):

5 Feb 1952

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): ROSE, 1932

Lat.: 35° 22' 28" 985 (893.3M) Long.: 76° 25' 13" 475 (340" 1M)

Adjusted

~~Unadjusted~~

Plane Coordinates (IV):

Lambert

State: N.C.

Zone:

Y= 601,279.13

X= 2,768,887.15

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): Herschel G. Murphy

Date: 15 Feb. 1949

Planetable contouring by (II): None

Date: _____

Completion Surveys by (II): James E. Hundley

Date: 28 June 1951

Mean High Water Location (III) (State date and method of location):
Air Photo Compilation

15 Feb. 1949

Projection and Grids ruled by (IV): W. E. W. (W. O.)

Date: 18 June 1948

Projection and Grids checked by (IV): W. E. W. (W. O.)

Date: 18 June 1948

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

Date: 5 Oct. 1948

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

Date: 5 Oct. 1948

Radial Plot ~~not stereoscopic~~
~~Control extension by~~ (III):

M. M. Slavney

Date: 28 Nov. 1949

Stereoscopic Instrument compilation (III):

Planimetry

Inapplicable

Date: _____

Contours

Date: _____

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

Date: 27 June 1950

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

Date: 23 August 1950

Elevations on Manuscript
checked by (II) (III): None

Date: _____

Camera (kind or source) (III): 2 USC&GS Nine lens $8\frac{1}{4}$ " focal length

Number	Date	Time	Scale	Stage of Tide
21627	26 Jan. 1948	13:47	1:20,000	No periodic tide *
22243	29 March 1948	15:40	"	
22244	29 March 1948	15:41	"	
24131	21 Dec. 1948	12:47	"	

Tide (III)

Reference Station:
Subordinate Station:
Subordinate Station:

No periodic tide *

Ratio of Ranges	Mean Range	Spring Range

Washington Office Review by (IV): *Everett H. Ramey*

Date: *27 Nov 1951*

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III):

5.5

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

32.3

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

0.3

Control Leveling - Miles (II):

None

Number of Triangulation Stations searched for (II):

6

Recovered:

4

Identified:

4

Number of BMs searched for (II):

None

Recovered:

Identified:

Number of Recoverable Photo Stations established (III):

5

Number of Temporary Photo Hydro Stations established (III):

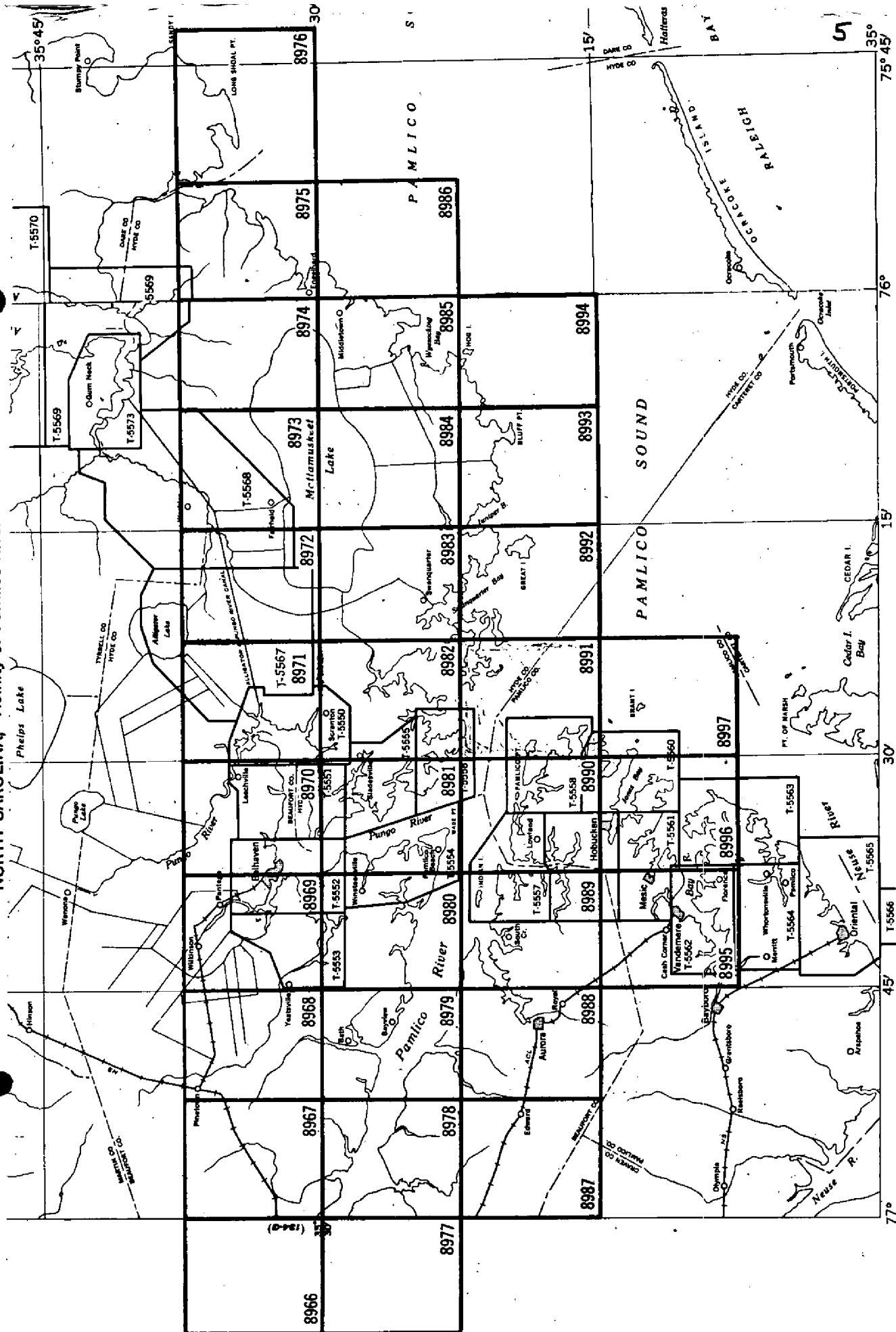
None

Remarks:

* The periodic tide is negligible. *ENR*

TOPOGRAPHIC MAPPING PROJECT PH-20(4)

NORTH CAROLINA, Vicinity of Pamlico River



6. /

Summary to Accompany Map T-8991

Map T-8991 is one of 32 similar maps of Project Ph-20(47) and is centrally located in the project. It covers the mouth of the Pamlico River and some land areas adjacent.

This is a graphic compilation project. Field operations preceding compilation included complete field inspection and the recovery and identification of horizontal control.

The map was compiled at a scale of 1:20,000 and covers $7\frac{1}{2}'$ in latitude by $7\frac{1}{2}'$ in longitude. The entire map was field edited.

This map will be published as a standard topographic quadrangle after the addition of hydrographic data by the Nautical Chart Branch, Division of Charts. Items registered under T-8991 will include a cloth-mounted lithographic print of the map manuscript at a scale of 1:20,000, a cloth-mounted color print at a scale of 1:24,000 and the descriptive report.

FIELD INSPECTION REPORT
 Quadrangle T-8991
 (35° 15' 00" 76° 22' 30")
 Project Ph-20(47)

E. R. McCarthy, 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 and Title</u>	<u>Phase</u>	<u>Started</u>	<u>Completed</u>
Herschel G. Murphy Engineering Aid	Shoreline & Horizontal Control	11/16/48	2/15/49
	Interior Field Inspection	11/16/48	2/15/49

1. DESCRIPTION OF THE AREA

This quadrangle is located in Pamlico and Hyde Counties. The land area is divided approximately equally between the two counties.

The Pamlico River flows in a general northwest-southeast direction through the quadrangle. All of the land area lying north of the river is in Hyde County, while all of that lying south of the river is in Pamlico County.

The land area of the quadrangle is composed completely of marsh, with small scattered sand beaches along the river edge.

The only industries carried on in the area encompassed by the limits of the quadrangle are; oystering, fishing and shrimping. Although there are no ports within the quadrangle at which these products can be sold, there are a number of safe anchorages for small vessels.

At no place within the quadrangle does the elevation exceed 3.0 feet above mean sea level.

2. COMPLETENESS OF FIELD INSPECTION

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

Woodland cover was classified in accordance with Photogrammetry Instructions No. 21 dated 18 August 1948.

3. INTERPRETATION OF THE PHOTOGRAPHS

No great difficulty was encountered in topographic interpretation of photographic details.

4. HORIZONTAL CONTROL

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

No supplemental horizontal control was established during field inspection.

5. VERTICAL CONTROL

Only one bench mark lies within the limits of this quadrangle. A tidal bench mark at Pamlico Point Light. At the time the party worked this area, weather conditions prohibited travel to the light in a small boat, thus it was impractical to visit the mark. *See item 67*

6. CONTOURS AND DRAINAGE

Elevations established in Quadrangle T-8990 were used to prove that in no place in the quadrangle does the elevation exceed three feet above mean sea level. In-as-much as the contour interval on this project is five feet, contouring is not applicable.

7. MEAN HIGH-WATER LINE

The mean high-water line is as photographed.

In some cases, a narrow line of grass and refuse shows on the photographs. Measurements prove this line to be the mean high-water line.

In other instances taped distances to the M.H.W.L. are given directly on the photographs.

8. LOW-WATER LINE

The mean low-water line is the same as the mean high-water line because there is no periodic tide. *See tide data record at beginning of report.*

9. WHARVES AND SHORELINE STRUCTURES

There are no wharves or shoreline structures within this quadrangle, therefor this paragraph is not applicable.

10. DETAILS OFFSHORE FROM HIGH-WATER LINE

Adequately labeled on the photographs.

11. LANDMARKS AND AIDS TO NAVIGATION

All fixed aids were located by theodolite cuts and are submitted on forms 24A and 567.

One landmark, a skeleton steel 55 foot tower was identified directly on the photographs and is reported on form 567, *copy attached.*

12. HYDROGRAPHIC CONTROL

At no place along the shore does the interval between triangulation stations, daybeacons, lights and topographic stations exceed 2.0 miles.

13. LANDING FIELDS AND AERONAUTICAL AIDS

There are no landing fields or aeronautical aids in the area encompassed by the limits of the quadrangle.

14. ROAD CLASSIFICATION

There are no roads within the limits of this quadrangle.

15. BRIDGES

There are no bridges over navigable waters within the limits of this quadrangle.

16. BUILDINGS AND STRUCTURES

There is only one building and one steel 55 foot tower* within the limits of the quadrangle and are delineated on the photographs in accordance with Photogrammetry Instructions No. 29, dated 1 October 1948.

** See item 11*

17. BOUNDARY MONUMENTS AND LINES

There are no boundary monuments within the quadrangle.

18. The line between Hyde and Pamlico counties follows the center of the Pamlico River and will be the subject of a special report by Mr. Wilber H. Nelson, *filed in the Div. of Photogrammetry.*

18. GEOGRAPHIC NAMES

This will be the subject of a special report which will be submitted by Mr. Wilber H. Nelson at a later date, *filed in Geographic Names Section, Div. of Charts.*

7 March 1949

Submitted by:

H. G. Murphy

Herschel G. Murphy
Engineering Aid

Approved:

7 March 1949

E. R. McCarthy

E. R. McCarthy
Chief of Party

Photogrammetric Plot Report

This report covers the plot for Maps T-8989 to T-8991 inclusive and T-8995 to T-8997 inclusive, and is filed as part of the Descriptive Report for Map T-8996.

SCALE FACTOR:

[illegible]

COMPILATION REPORT T-8991

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-8996 on 10 February 1950, *filed in Descriptive Report for T-8996.*

31. DELINEATION

The graphic method of delineation was used. No unusual methods of compilation were used. Field inspection was satisfactory.

32. CONTROL

The horizontal control was adequate. Identification, placement and density of coverage was sufficient for the establishment of detail points.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

No contours exist in this quadrangle. Drainage has been delineated as indicated by the photographs. *See item 6*

35. SHORELINE AND ALONGSHORE FEATURES

The mean high-water line has been shown as indicated on the field photographs. The shoreline inspection was adequate. *See item 56.*

36. OFFSHORE DETAILS

No unusual problems were encountered in compiling offshore details.

37. LANDMARKS AND AIDS

No unusual methods of compilation were encountered. Reference Photogrammetric Plot Report, relative to Pamlico Point Lighthouse.

38. CONTROL FOR FUTURE SURVEYS

Five (5) topographic stations are being submitted on form 524. These topographic stations have been listed and included under Item No. 49.

See item 57

39. JUNCTIONS

Satisfactory junction has been made with T-8990 - on the west, T-8992 - on the east and T-8997, on the south. T-8982, on the north, has not been compiled at this writing.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement required.

See item 53

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USC&GS planimetric map T-5558 at a scale of 1:10,000. Comparison could be made only as far north as Latitude $35^{\circ} 19'$; that being the limit of the map. No outstanding differences were noted.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart No. 1231, at a scale of 1:80,000, published Nov. 1938, and corrected to 28 Nov. 1949. No changes were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Charles J. Downing

Charles J. Downing
Cartographic Photo. Aid

Approved and Forwarded

Arthur L. Wardwell

Arthur L. Wardwell
Chief of Party

49. NOTES FOR THE HYDROGRAPHER

The following list of Topographic Stations may be of use to the hydrographer:

HILL, 1949

HELP, 1948

HUPP, 1948

~~KNLE, 1949~~ ~~lost~~ *unable to recover. Station destroyed.*

LATE, 1948

*J.E. Handley
27 June 1951*

T. 8991

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy MMS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) JG ~~XXXXXX~~ ~~XXXXXX~~ ~~XXXXXX~~ ~~XXXXXX~~ ~~XXXXXX~~ ~~XXXXXX~~ ~~XXXXXX~~ ~~XXXXXX~~ ~~XXXXXX~~ ~~XXXXXX~~

9. Plotting of sextant fixes JG 10. Photogrammetric plot report JG 11. Detail points JG

(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES

MISCELLANEOUS

41. Remarks (see attached sheet)

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.

43. Remarks:

FIELD EDIT REPORT
Project Ph-20(47)
Quadrangle T-8991

Harry F. Garber, Chief of Party

51. METHODS

The field edit of this area was accomplished by traversing the shoreline by boat.

Corrections and additions were made by standard surveying methods in conjunction with visual inspection.

All corrections and additions have been noted on the field edit sheet and one overlay sheet. All deletions have been noted on the field edit sheet.

The reviewer's questions are answered on the discrepancy print, field edit sheet, one overlay sheet, and this report.

A legend appears on the field edit sheet which is self-explanatory.

The actual field work was accomplished in two days - 29 November 1950 for the southwest portion, and 27 June 1951 for the northeast portion.

52. ADEQUACY OF COMPILATION

The map compilation is adequate and will be complete after field edit data has been applied.

See item 66

53. MAP ACCURACY

The horizontal accuracy of the map detail is relatively good.

See item 66

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

It is believed that Mr. John L. Mann of New Holland, N. C. is best qualified to examine a proof copy of this work.

Ref. to item 48 - Compilation Report.

The name "RACCOON COVE" could not be verified.

56. SHORELINE AND ALONGSHORE DETAILS

Ref. to item 35 - Compilation Report.

Several changes, from apparent to definite, in the classification of shoreline, have been shown on the field edit sheet.

57. OTHER CONTROL

Ref. to item 49 - Compilation Report.

Topographic station "KNEE 1949" was searched for, but not recovered. It is believed that the station has been destroyed, as a new survey of the vicinity was made and the sand beach has shifted about 40 feet westward. This particular type of beach is subject to change with the storm tides. Form 524 is submitted, *filed in Div. of Photogrammetry.*

58. JUNCTIONS

Satisfactory junctions have been made with quadrangle T-8982 to the north, T-8992 to the east, and T-8990 to the west.

28 June 1951
Submitted by:

James E. Hundley
James E. Hundley *CEV*
Cartographer

17 July 1951
Approved by:

Harry F. Garber
Harry F. Garber *CEV*
Commander, USC&GS
Chief of Party

PHOTOGRAMMETRIC REVIEW SEC NONFLOATING AIDS ~~OR~~ ~~AND~~ MARKS FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

Washington, N. C. 23 July 1949

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

Charles J. Downing

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.

48. GEOGRAPHIC NAME LIST

· BERNICE CREEK ✓
 · BIG PORPOISE BAY ✓
 · BIG PORPOISE POINT ✓

· CEDAR CREEK ✓
 · CEDAR CREEK POINT ✓
 · CURRITUCK TOWNSHIP ✓

· DEEP BAY ✓
 · DRUM COVE ✓
 · DRUM POINT ✓

· FATE COVE ✓
 · FLAT COVE ✓

· HOG COVE ✓
 · HOG PEN POINT ✓
 · HOUSE COVE ✓
 · HOUSE COVE POINT ✓
 · HYDE COUNTY ✓

· ISLAND CREEKS ✓
 · ISLAND CREEKS POINT ✓

· JENKINS COVE ✓
 · JUDITH ISLAND ✓
 · JUDITH NARROWS ✓

· KIRK POINT ✓

· LIGHTHOUSE CREEK ✓
 · LITTLE JUDITH ISLANDS ✓
 · LITTLE PORPOISE BAY ✓
 · LITTLE PORPOISE POINT ✓
 · LONG CREEK (1) ✓
 · LONG CREEK (2) ✓
 · LONG CREEK POINT ✓

· MIDDLE CREEK ✓
 · MOUSE HARBOR ✓

· NORTH CAROLINA ✓
 · NORTH COVE ✓

· OAK COVE ✓
 · OAK COVE POINT ✓

GEOGRAPHIC NAME LIST (continued)

- PAMLICO COUNTY ✓
- PAMLICO POINT ✓
- PAMLICO RIVER ✓
- PAMLICO SOUND ✓
- PERSIMMON TREE POINT ✓
- POINT OF NARROWS ✓
- PORPOISE CREEK ✓
- RACCOON POINT ✓ *No - Where*
- ~~*RACCOON POINT COVE~~ *unable to verify. J.E. Hurdley*
- ROOS POINT ✓ *Name on old T-5556 and verified in Names Report by 3 local residents L.H.* 27 June 1961
- SAGE POINT ✓
- SHELL BAY ✓
- SHELL HILL POINT ✓
- SHELL POINT ✓
- SOUND POINT ✓
- SOUTHWARD BAY ✓
- SWANQUARTER ISLAND ✓
- SWANQUARTER NATIONAL WILDLIFE REFUGE ✓
- SWANQUARTER TOWNSHIP ✓
- THE BLOWOUT ✓
- TOLERS BAY ✓
- TOWNSHIP NO. 4 ✓
- VOLIVA COVE ✓
- WHITE PERCH BAY ✓
- YAUPON HAMMOCK POINT ✓

*Name shown on map manuscript in pencil was taken from
USC&GS T-5556 is to be investigated during field edit.

*Names approved,
subject to F.D.*

11-2-50

A.J.W.

REVIEW REPORT
Topographic Map T-8991
27 November 1951

62. Comparison with Registered Topographic Surveys:

T-1095	1:20,000	1869
T-1355	1:20,000	1873-74
T-5556	1:10,000	1934
T-5558	1:10,000	1935
T-5560	1:10,000	1935

This survey supersedes the above surveys for nautical charting purposes for common areas.

63. Comparison with Maps of Other Agencies: None

64. Comparison with Contemporary Hydrographic Surveys: None.

65. Comparison with Nautical Charts:

1231	1:80,000	50 - 2/20
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This survey shows a new canal across Judith Island.

66. Adequacy of Results and Future Surveys:

This map meets the National Standards of Map Accuracy and complies with project instructions.

67. Vertical Control:

The tidal bench mark referred to under item 5 is not shown on the manuscript. The mark was located on the light in 1914 and the light was rebuilt in 1940. Although it was not confirmed by the field parties, the mark is probably destroyed.

Submitted by:

Everett H. Ramey
Everett H. Ramey

Approved:

S. V. Griffith
Chief, Review Section
Div. of Photogrammetry
7-25-53

M. E. Munster
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Div. Photogrammetry

Carl O. Heaton
Chief, Div., Coastal Surveys

History of Hydrographic Information

T-8991

Judith Island, Pamlico Sound, N. C.

Hydrography was added to the map manuscript in accordance with the general specifications of 18 May 1949.

Depth curves and soundings are in feet and originate with the following C&GS hydrographic surveys:

H-1010	(1869)	1:20,000
H-1088	(1870)	1:20,000
H-1226	(1874)	1:20,000
H-1227	(1874)	1:40,000
H-3664	(1914)	1:20,000

The depth curves are shown at 6, 12, and 18 feet.

The depth curves and soundings were compiled by Everett H. Ramey and checked by R. E. Elkins.

Everett H. Ramey
Everett H. Ramey
7 January 1952