8984

ORIGINAL

Diag. Cht. Nos. 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-8984

LOCALITY

State NORTH CAROLINA

General locality PAMLICO SOUND

Locality NEW HOLLAND

1951

CHIEF OF PARTY

E. R. McCarthy, Chief of Field Party
Arthur L. Wardwell, Tampa Photo-
~~grammetric Office~~

LIBRARY & ARCHIVES

DATE December 3, 1952

8-1870-1 (1)

8984

DATA RECORD

T-8984

Project No. (II): Ph-20 (47) Quadrangle Name (IV): Wyesocking NW, N. C.

Field Office (II): Manteo, North Carolina 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)

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): 1-23-51 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): Sept 16, 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): NEW HOLLAND, 1933

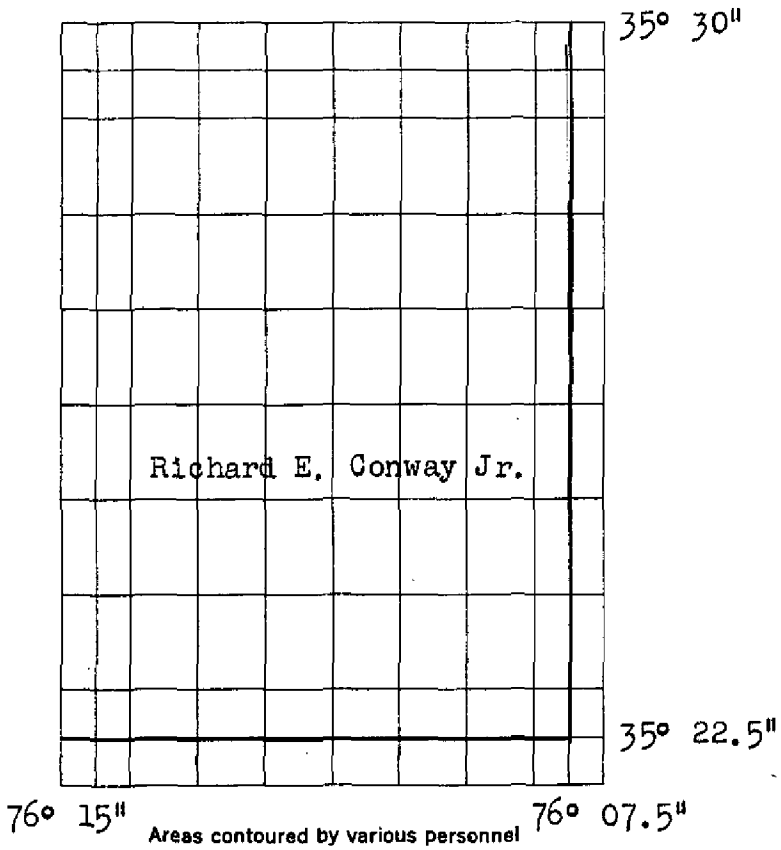
Lat.: 35°26' 34.587"(1065.9m) Long.: 76°10' 14.166"(357.3m) Adjusted ~~Unadjusted~~

Plane Coordinates (IV): State: N. Carolina Zone:

Y= 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.



Areas contoured by various personnel
(Show name within area)
(II) ~~(III)~~

DATA RECORD

Field Inspection by (II): Richard E. Conway, Jr.
Cartographic Survey Aid
Date: Dec 49 - Jan 50

Planetable contouring by (II): Richard E. Conway, Jr.
Cartographic Survey Aid
Date: Dec 49 - Jan 50

Completion Surveys by (II): James E. Handley
Date: Aug 6 1951

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

Projection and Grids ruled by (IV): W.E.W. (W.O.)
Date: 25 June 1948

Projection and Grids checked by (IV): W.E.W. (W.O.)
Date: 25 June 1948

Control plotted by (III): R. R. Wagner
Date: 7 Oct. 1948

Control checked by (III): B. F. Lampton
Date: 15 Oct. 1948

Radial Plot ~~or Stereoscopic~~ by (III): M. M. Slavney
Date: 12 June 1950

Stereoscopic Instrument compilation (III): Inapplicable
Planimetry
Date: —
Contours
Date: —

Manuscript delineated by (III): R. A. Reece
Date: 1 Sept 1950

Photogrammetric Office Review by (III): J. A. Giles
Date: 22 Nov. 1950

Elevations on Manuscript checked by (III): J. A. Giles
Date: 21 Nov. 1950

M-2618-12(4)

Camera (kind or source) (III): Nine-lens 8¼" focal length, U. S. Coast and Geodetic Survey

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
22169	3-29-48	13:21	1:20,000	Inapplicable
22212	3-29-48	14:35	"	
22213	3-29-48	14:36	"	
22214	3-29-48	14:44	"	
22215	3-29-48	14:45	"	

Tide (III)

	Ratio of Ranges	Mean Range	Spring Range
Reference Station:			
Subordinate Station: Inapplicable			
Subordinate Station:			

Washington Office Review by (IV): G. B. Willey Date: 4/29/52

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): ~~4260~~

Shoreline (More than 200 meters to opposite shore) (III): .D Stat. mi. ?

Shoreline (Less than 200 meters to opposite shore) (III): .0 " "

Control Leveling - Miles (II): 15.5

Number of Triangulation Stations searched for (II): 5 Recovered: 4 Identified: 4

Number of BMs searched for (II): 14 Recovered: 14 Identified: 10

Number of Recoverable Photo Stations established (III): none

Number of Temporary Photo Hydro Stations established (III): none

Remarks:

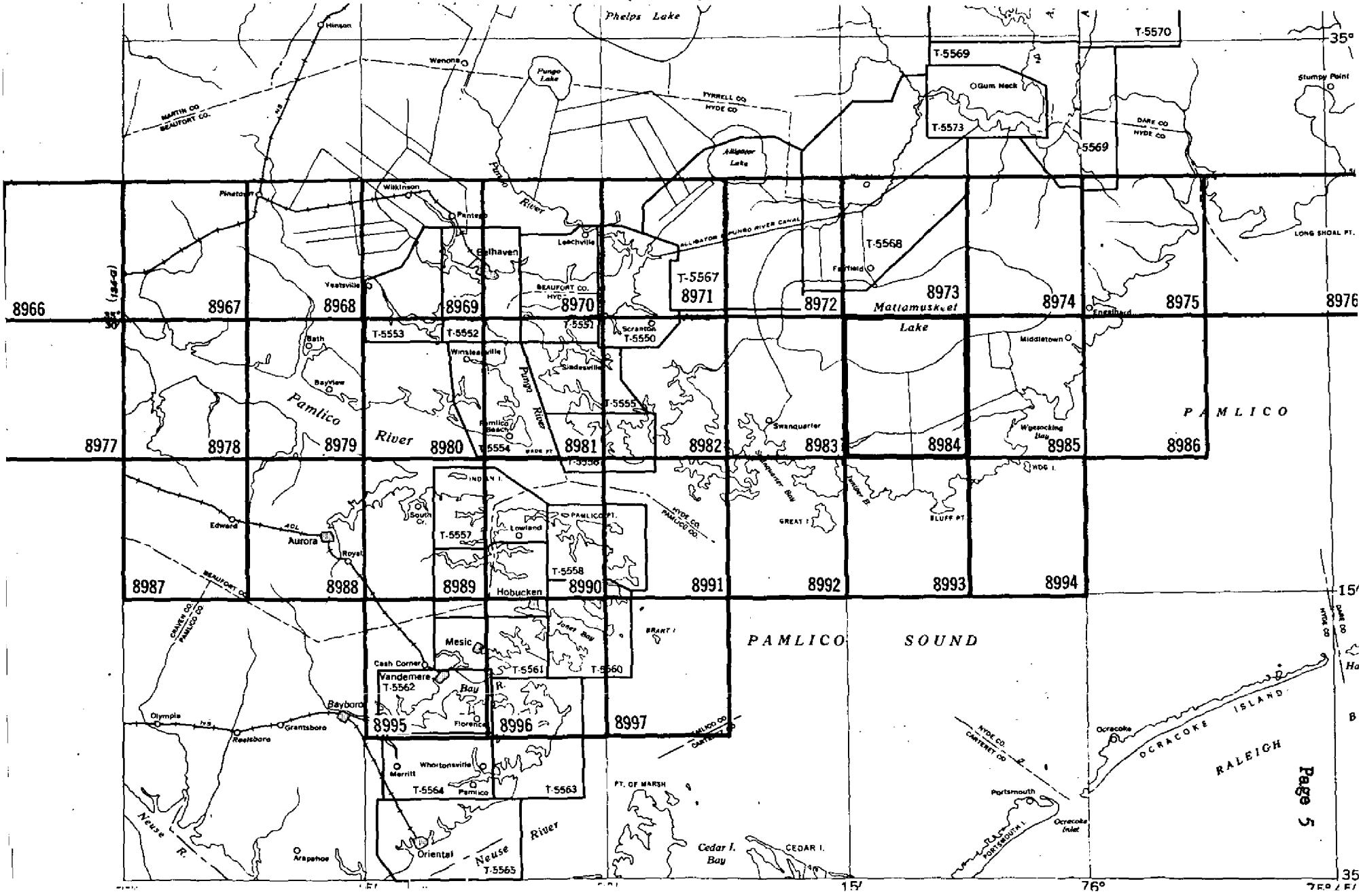
Third Order Bench Marks established by Party.

M-2618-12(4)

TOPOGRAPHIC MAPPING PROJECT

PH-20( )

NORTH CAROLINA, Vicinity of Pamlico River



Summary to Accompany Map T-8984

This topographic map is one of 32 similar maps of Project Ph-20(47). It covers the head of Juniper Bay Creek of Pamlico Sound, adjacent land areas, and the Southeastern shoreline of Lake Mattamuskeet.

Project Ph-20(47) is a graphic compilation project. Field operations preceding compilation included complete field inspection and recovery and identification of horizontal control. After compilation, the map was field edited.

This map was compiled at a scale of 1:20,000 and covers 7½' in latitude by 7½' in longitude. After the addition of hydrographic data by the Nautical Chart Branch of the Division of Charts, the map will be published by the Geological Survey as a standard topographic quadrangle. Items registered under T-8984 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 original descriptive report.

FIELD INSPECTION REPORT
QUADRANGLE T-8984
35-22.5/30 76-07.5/15

E. R. McCarthy, Chief of Party

The field work for this quadrangle was done in accordance with Instructions, dated 23 July 1948 (Ph-20). Field work in addition to those phases listed on Pages 2-3 was done by the following personnel:

Name and Title	Phase	Date
Matthew A. Stewart Cartographic Survey Aid	Third Order Levels	October 1948 April 1949
Richard E. Conway, Jr. Cartographic Survey Aid	Shoreline Inspection (Mattamuskeet Lake)	January 1950
Joseph K. Wilson Cartographer	Horizontal and Vertical Control Recovery and Indentification	November 1949

This report is written in accordance with Paragraph 724 of the Preliminary Edition of the Topographic Manual dated June 1949.

2. AREAL ~~AERIAL~~ FIELD INSPECTION

Approximately fifty per cent of the quadrangle area is burnt over wasteland and swamp, approximately twenty-five per cent is cultivated and the remaining twenty-five per cent is water (southern section of Mattamuskeet Lake).

Farming, the chief occupation is confined to a strip south of and adjacent to U. S. Highway No. 264, which parallels the southern section of Mattamuskeet Lake.

Two hard surfaced highways serve the quadrangle. U. S. Highway No. 264 crosses very near the center, in an east-west direction and N. C. Highway No. 94, which junctions with U. S. Highway No. 264 near the center of the quadrangle, bisects the northern half in a north-south direction, These two highways, plus a pattern of secondary roads, adequately serve the cultivated areas.

The Outfall Canal, (which was orginally dug as an outlet canal, through which at one time Mattamuskeet Lake was pumped dry and cultivated). (See Field Inspection Report for Quadrangle T-8985 and T-8986) begins at the southern edge and in the middle of the Lake and empties into Pamlico Sound about six miles away.

This canal is navigable, to fishing boats and barges, as far up as the bridge on U. S. Highway No. 264.

Juniper Bay Creek, which heads in the southwest corner of the quadrangle and empties into Pamlico Sound, has several canals running into it. Two of these, the Quarter and Hydeland Canals are navigable to small fishing boats and barges up as far as the cultivated areas, which they drain. Two others, the Juniper and Double Canals, are navigable only to skiffs.

The Dyke Canal, which is located about 2.5 miles south of and approximately parallel to U. S. Highway No. 264, was originally dredged to divert water from the Lake. It is not navigable even to skiffs and drains into the Outfall Canal.

Much of the land south of the Dyke Canal is open and pitted with holes caused by fires.

New Holland, the only community in the quadrangle is located on U. S. Highway No. 264 where it crosses the Outfall Canal.

No difficulty was encountered in the interpretation of the photographs.

The field inspection is believed to be complete.

According to local information some of the secondary roads in the area will be hard surfaced in the near future and should be checked by the field edit party. At the present time some of the roads are being soil surfaced and in most cases have been built up to such an extent that any fly level point on these roads, shouldnot be used by the field edit party.

3. HORIZONTAL CONTROL

All known horizontal control stations within the quadrangle were recovered except one (a tank which has been destroyed). All stations recovered were identified on the photographs.

(c) Stations not established by the USC&GS are:

Station	Agency	Order	Datum
61	NCGS	Third	NA 1927
64	NCGS	Third	NA 1927

(e) Station reported as lost is:

New Holland Corp. Water Tank, 1933

4. VERTICAL CONTROL

(a) All Bench Marks in the quadrangle are third order bench marks established by this party:

M-244	Chisled Cross R.P. (USAE)
N-244	61 (NCGS)
P-244	61 AZ MK (NCGS)
Q-244	New Holland, 1933
C-246	New Holland RM 1, 1933
D-246	New Holland RM 2, 1933
E-246	New Holland RM 3, 1933

Chisled Cross R. P. was originally established by USAE and was tied into the Third Order Levels by this party.

(b) 15.5 miles of fly levels were run to control the contours. The greatest error in closure was 0.10 foot and was not adjusted.

(c) The first and last level points are: 84-1 to 84-28.

5. CONTOUR AND DRAINAGE

All contouring was done by planetable methods directly on nine-lens photographs. The interval was five feet. Elevations ranged from one to six feet. The only contour of importance was a five foot contour encompossing the narrow ridge along U. S. Highway No. 264. Although elevations on spoil banks sometimes ran up to eleven and twelve feet, no contours were shown as the banks were too narrow. Notes on the photographs indicate this. Along most canals elevations were taken from the water surface which was carefully checked from a B.M. or Fly Level Point before and after work.

Canals and ditches artifically drain the largest part of the quadrangle which would ordinarly depend on seepage. Where there is natural drainage the swamp outline generally makes it apparent. All drainage except that plainly visible on the photographs, is indefinite and is so noted on the photographs. The drainage is south from the ridge along U. S. Highway No. 264 into Pamlico South and north from this ridge into the Lake.

6. WOODLAND COVER

The cover was classified in accordance with Paragraph 5433 of the Preliminary Edition of the Topographic Manual dated June 1949.

7. SHORELINE AND ALONGSHORE FEATURES

A detailed inspection was made of the shoreline of Mattamuskeet Lake and Juniper Bay Creek and all features are clearly noted on the photographs.

NOTE: Mattamuskeet Lake and that part of Juniper Bay Creek that touches the quadrangle are very shallow and navigable to skiffs only.

8. OFFSHORE FEATURES

Inapplicable

9. LANDMARKS AND AIDS

Inapplicable

10. BOUNDARIES, MONUMENTS AND LINES

This is covered in a "Special Boundary Report", which was submitted by Wilbur A. Nelson on 14 February 1949, and a Supplemental Report submitted by A. J. Wraight on 8 November 1949.

The limits of Mattamuskeet National Wildlife Refuge have been delineated on Photographs 22212, 22213 and 22215.

11. OTHER CONTROLS

No other control was established by this party.

12. OTHER INTERIOR FEATURES

All roads and buildings were classified in accordance with Paragraph 5441 of the Preliminary Edition of the Topographic Manual dated June 1949.

13. GEOGRAPHIC NAMES

This is the subject of a report submitted 15 January 1950 by A. J. Wraight.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Except as noted in Paragraphs 10 and 13 there are no special data for this quadrangle.

15. SWAMPS

True swamp has been classified with the 'Sw' symbol ~~and intermittent swamps as Flats~~. See correspondence on this subject to be included in Project Completion Report.
LMG.

Submitted by:
Richard E. Conway, Jr.
Richard E. Conway, Jr. Cy GEV.
Cartographic Survey Aid

Approved:
10 February 1950
E. R. McCarthy
E. R. McCarthy
Chief of Party

MAP T- 8984 PROJECT NO. PH-20(47) SCALE OF MAP 1:20,000 SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
61 (N.C.G.S.),	N.C.G.S.	N.A.	627,201.48	7,201.48(2,798.52)			
1934	Pge 1	1927	2,828,771.86	8,771.86(1,228.14)			
64 (N.C.G.S.),	N.C.G.S.	"	614,555.59	4,555.59(5,444.41)			
1934	Pge 1		2,822,227.76	2,227.76(7,772.24)			
61 AZ. MK. (	N.C.G.S.	"	627,143.22	7,143.22(2,856.78)			
(N.C.G.S.), 1934	Pge 1		2,829,924.64	9,924.64(75.36)			
64 AZ. MK.	N.C.G.S.	"	615,617.68	5,617.68(4,382.32)			
(N.C.G.S.), 1934	Pge 1		2,822,149.62	2,149.62(7,850.38)			
NEW HOLLAND, 1933	S.P.218	"	35 26 34.587			1065.9(783.2)	
	14		76 10 14.166			357.3(1156.0)	
63 AZ. MK.	N.C.G.S.	"	637,940.70	7,940.70(2059.30)			
(N.C.G.S.), 1934	Pge 1		2,855,824.80	5,824.80(4175.20)			

1 FT. = .3048006 METER

COMPUTED BY: B. F. Lampton DATE 22 Sept. 48 CHECKED BY: R. R. Wagner DATE 24 Sept. 48

M-2388-12

COMPILATION REPORT T-8984

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-8974.

31. DELINEATION.

The graphic method was used.

The field inspection was adequate. Areas and details that need field investigation have been noted on the discrepancy overlay.

Photographs were, in general, clear but of poor scale.

32. CONTROL.

Sufficient well placed secondary control was identified for the cutting of detail points.

33. SUPPLEMENTAL DATA.

None available.

34. CONTOURS AND DRAINAGE.

No difficulties were encountered in transferring contours from the field prints. Drainage was delineated according to field inspection notes.

35. SHORELINE AND ALONGSHORE DETAILS.

All detail along the shore and the shoreline was delineated according to field inspection notes, which were adequate. There are no low-water or shoal lines.

36. OFFSHORE DETAILS.

None.

37. LANDMARKS AND AIDS.

None.

38. CONTROL FOR FUTURE SURVEYS.

None.

39. JUNCTIONS.

T-8973 to the north - in agreement.
T-8983 to the west - " "
T-8985 to the east - " "
T-8993 to the south - " "

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

46. COMPARISON WITH EXISTING MAPS.

None available for comparison.

47. COMPARISON WITH NAUTICAL CHARTS.

Partial comparison has been made with Nautical Chart No. 1231, scale 1:80,000, published November 1938, corrected to 10 May 1948. Juniper Bay Creek Sector is all that is shown on the chart that can be compared. It is in good agreement. The large scale difference makes the comparison ineffectual.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

Richard A. Reece
Richard A. Reece
Cartographic Survey Aid

Approved and Forwarded:

Arthur L. Wardwell
Arthur L. Wardwell
Chief of Party

48. GEOGRAPHIC NAME LIST.

CRANBERRY POND

DONALD FARM CEMETERY
DOUBLE CANAL
DYKE CANAL Boundary Canal

GULROCK REFUGE

HYDE COUNTY
HYDELAND
HYDELAND CANAL

JUNIPER BAY CREEK
*JUNIPER BAY ROAD
JUNIPER CANAL

LAKE LANDING TOWNSHIP
LAKE MATTAMUSKEET

MATTAMUSKEET NATIONAL WILDLIFE REFUGE
MATTAMUSKEET TOWNSHIP

NEW HOLLAND NEW HOLLAND ELEMENTARY SCHOOL
NORTH CAROLINA
NORTHWEST CREEK

OLD RICHMOND CHURCH
OUTFALL CANAL

*PHILLIPS CANAL

QUARTER CANAL

ROSE CANAL

SOULE CEMETERY
SOULE CHURCH
STATE NO. 94
ST LYDIA CHURCH
ST LYDIA SCHOOL
ST MARY CHURCH
SWANQUARTER NATIONAL WILDLIFE REFUGE
SWANQUARTER TOWNSHIP

U.S.264 = (N.C. 91)

*Shown on manuscript in pencil to be investigated by field editor.

Names approved, subj to F.E. 2-15-51 a.f.w.

Re-checked after Field Edit. 4-29-52 L.H.

49. NOTES FOR THE HYDROGRAPHER.

There are no photo-hydro stations or recoverable topographic stations shown.

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

50 T-8984

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 MMS [redacted] 8. Bench marks 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. [redacted] 15. Bridges J.G. [redacted] 18. Other alongshore physical features J.G. 19. Other alongshore cultural features J.G.

PHYSICAL FEATURES

20. Water features J.G. 21. Natural ground cover J.G. 22. Planetable contours J.G. [redacted] 24. Contours in general J.G. 25. Spot elevations J.G. 26. Other physical features J.G.

CULTURAL FEATURES

27. Roads J.G. 28. Buildings J.G. 29. Railroads J.G. 30. Other cultural features J.G.

BOUNDARIES

31. Boundary lines J.G. [redacted]

MISCELLANEOUS

33. Geographic names J.G. 34. Junctions J.G. 35. Legibility of the manuscript J.G. 36. Discrepancy overlay J.G. 37. Descriptive Report J.G. 38. Field inspection photographs J.G. 39. Forms J.G.

40. Jesse A. Giles *Jesse A. Giles* — Reviewer

William A. Rasure *William A. Rasure* — 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:

M-2623-12

FIELD EDIT REPORT
PROJECT PH-20(47)
QUADRANGLE T-8984

Harry F. Garber, Chief of Party

51. METHODS

The field edit of this area was accomplished by traversing, by truck, all roads, and walking to other areas in which the reviewer requested information. A general check on the adequacy of the map compilation was made.

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

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

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

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

The actual field work was accomplished in four days in July, 1951.

52. ADEQUACY OF COMPILATION

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

53. MAP ACCURACY

The horizontal and vertical accuracy of the map detail is relatively good.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

It is believed that Mr. Joseph S. Mann of Fairfield, N. C. is best-qualified to examine a proof copy of this work.

Ref. to item 48 - Compilation Report.

1. ✓JUNIPER BAY ROAD

The name "Juniper Bay Road" was verified locally. Its correct location is shown on the field sheet.

2. ✓NEW HOLLAND ELEMENTARY SCHOOL - ST. LYDIA SCHOOL

According to local information, the Hyde County Board of Education lists this as New Holland Elementary School, but the people (colored) who live in the vicinity call it St. Lydia School. The correct name for the school is New Holland Elementary School.

3. DYKE CANAL - BOUNDARY CANAL

Ref. to F. E. Report - T-8972.

Boundary Canal is the correct name.

4. CRANBERRY POND

Ref. to item 48 - Compilation Report.

This is not a geographic name.

56. BOUNDARIES

Ref. to reviewer's question regarding MATTAMUSKEET TOWNSHIP.

There is no Mattamuskeet Township.

According to Mr. Melvin M. Swindell, Clerk of Superior Court, Hyde County, Swan Quarter, N. C., there was a Mattamuskeet Township until the U. S. Government acquired title to Mattamuskeet Lake. Since that time all land not belonging to the Government was incorporated in one or more of the existing townships, i.e. Currituck, Fairfield, Lake Landing, Ocracoke, Swan Quarter.

57. CONTOURS AND DRAINAGE

All contours appearing in this area are relatively correct.

All drainage ditches shown on field edit sheet as ending at

the fire break along the boundary of Mattamuskeet National Wildlife Refuge are compiled correctly.

There is a small ditch on both sides of the dismantled railroad which runs through the central portion of this area.

58. OTHER INTERIOR FEATURES

Ref. to item 12 - Field Inspection Report.

Reclassification of roads and buildings has been made on the field edit sheet, where necessary.

59. WOODLAND COVER

Ref. to item 6 - Field Inspection Report.

Numerous changes in the classification of vegetation have been made on the field edit sheet, where necessary.

Swamp vegetation predominates in all areas labeled "SW".

Pine trees predominate in all areas labeled "T".

New growths of pine trees are starting in the majority of those areas previously classified as "Open".

60. JUNCTIONS

Satisfactory junctions have been made with all adjacent quadrangles.

6 August 1951
Submitted by:

James E. Hundley

James E. Hundley
Cartographer

16 August 1951
Approved by:

Harry F. Garber

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

REVIEW REPORT
Topographic Map T-8984
29 April 1952

62. Comparison with Registered Topographic Surveys:

T-1384a	1:20,000	1874-75

There is evidence of minor shoreline erosion since this Survey. Map T-8984 is to supersede this survey 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	51 - 11/12

See Item 47

66. Adequacy of Results and Future Surveys:

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

Submitted By:

Gordon B. Willey
Gordon B. Willey

Approved:

S. V. Griffith 11/24/52
Chief, Review Section
Div. of Photogrammetry

A. R. Edmonston
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Div. Photogrammetry

Earl O. Heaton
Chief, Div. Coastal Surveys

History of Hydrographic Information

Quadrangle T-8984
Pamlico Sound
Juniper Bay Creek-Juniper Bay, North Carolina

Hydrography was applied to the manuscript of this quadrangle in accordance with Division of Photogrammetry general specifications dated 18 May 1949.

Soundings and 6 foot depth curves at mean low water datum originate with the following:

U.S.C.&G.S. Hydrographic Survey
H-1226a (1874) 1:20,000

Hydrography was applied by K. N. Maki and verified by C. B. Samuel 5/26/52.

K. N. Maki
Div. of Photogrammetry
15 May 1952