

9839

Diag. Cht. No. 1231-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-61(49) Office No. T-9839

LOCALITY

State North Carolina

General locality Pungo River

Locality Wenona

194 51-54

CHIEF OF PARTY

Harry F. Garber, Chief of Field Party

J. E. Waugh, Tampa Photogrammetric

Office

LIBRARY & ARCHIVES

DATE April 19, 1957

DATA RECORD

Page 1

T - 9839

Project No. (II): Ph-61(49) Quadrangle Name (IV):

Field Office (II): Edenton, North Carolina

Chief of Party: Harry F. Garber

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: J. E. Waugh

Instructions dated (II) (III): 15 June 1951

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):

SEP 28 1953

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 3-25-57

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N. A. 1927

Vertical Datum (III): *MSL*

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): CL-RE-2, 1951 ✓

Lat.:

Long.:

~~Adjusted~~
Unadjusted X

Plane Coordinates (IV):

State: *N.C.*

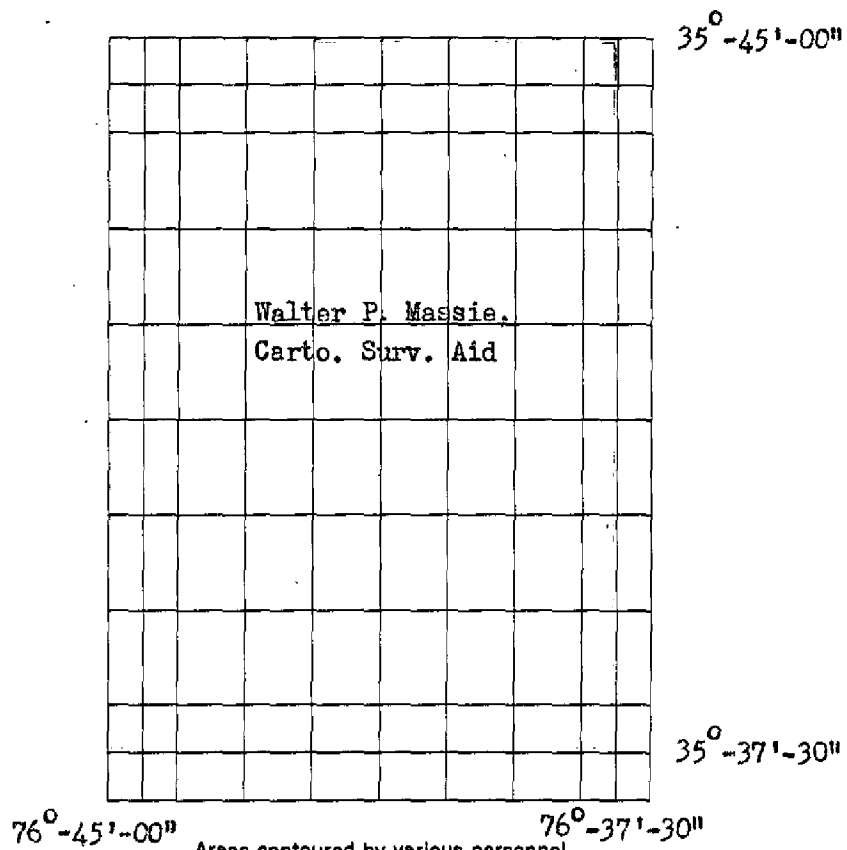
Zone:

Y= 734,830.51 ✓

X= 2,670,565.26 ✓

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) (U)

DATA RECORD

Field Inspection by (II):	Walter P. Massie, Cartographic Survey Aid	Date: December, 1951
Planetable contouring by (II):	Walter P. Massie, Cartographic Survey Aid	Date: October thru December, 1951
Completion Surveys by (II):	<i>James E. Hundley</i>	Date: <i>June 1954</i>
Mean High Water Location (III) (State date and method of location):	<i>MHW - inapplicable: interior quad.</i>	Sept. 1951 Air Photo Compilation <i>ENK</i>
Projection and Grids ruled by (IV):	J. Allen (W. O.)	Date: 28 Jan. 1952
Projection and Grids checked by (IV):	H. D. Wolfe (W. O.)	Date: 5 Feb. 1952
Control plotted by (III):	R. E. Smith, Jr.	Date: 1 Apr. 1952
Control checked by (III):	I. I. Saperstein	Date: 2 Apr. 1952
Radial Plot or Stereoscopic Control extension by (III):	M. M. Slavney	Date: 15 Aug. 1952
	Planimetry	Date:
Stereoscopic Instrument compilation (III):	Inapplicable	Date:
	Contours	Date:
Manuscript delineated by (III):	R. A. Reece	Date: 10 July 1953
Photogrammetric Office Review by (III):	R. Dossett	Date: 24 Aug. 1953
Elevations on Manuscript checked by (II) (III):	R. Dossett	Date: 24 Aug. 1953

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

PHOTOGRAPHS (III)				
Number	Date	Time	Scale	Stage of Tide
33125	17 March 1951	1045	1:20,000	No tide (inshore)
33126	"	1046	"	"
33127	"	1047	"	"
33128	"	1048	"	"
33135	"	1105	"	"
33136	"	1106	"	"
33154	"	1135	"	"
33155	"	1136	"	"
33156	"	1137	"	"

Tide (III)

Reference Station: No periodic tide
 Subordinate Station: (inshore)
 Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range

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

Date: *28 Dec 1954*

Final Drafting by (IV): *F Johnson*

Date: *10-24-55*

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): *61.5*

Shoreline (More than 200 meters to opposite shore) (III): 0

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

Control Leveling - Miles (II): *19.9 miles of fly levels*

Number of Triangulation Stations searched for (II): *1 Recovered: *1

Identified: **5 (Traverse)

Number of BMs searched for (II): ***8 Recovered: 8

Identified: 5

Number of Recoverable Photo Stations established (III): 2

Number of Temporary Photo Hydro Stations established (III): 0

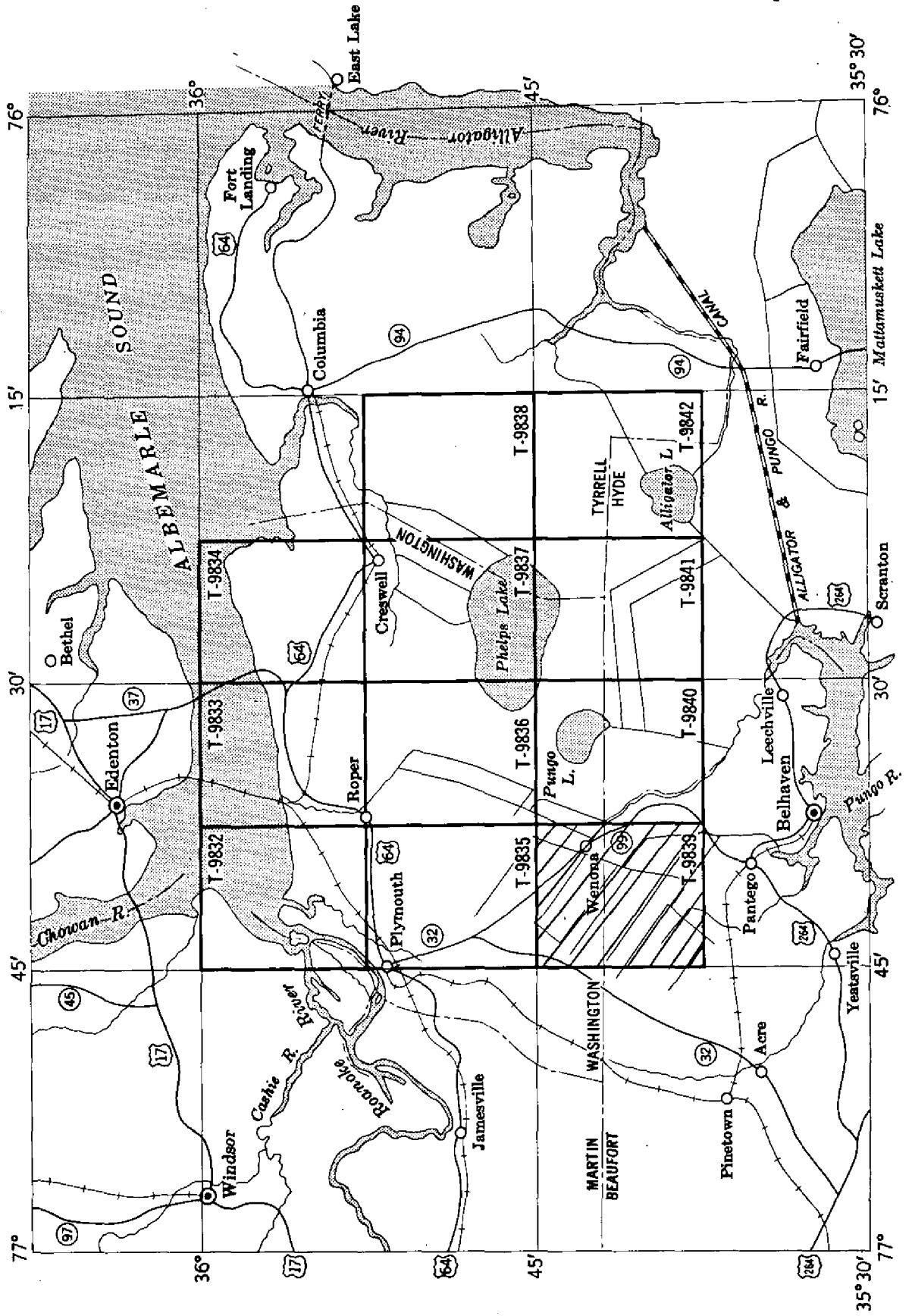
Remarks: *- Falls outside limits of quadrangle

** - Eight (8) traverse stations were established of which only two (2) fell within limits of quadrangle.

*** - Eight (8) established, three (3) of which fell outside limits of quadrangle.

TOPOGRAPHIC MAPPING PROJECT PH-61-(49) NORTH CAROLINA, Albemarle Sound and Vicinity

Compilation scale 1:20,000



Summary to Accompany Topographic Map T-9839

Topographic map T-9839 is one of eleven similar maps of Project Ph-61(49). It covers an area in Beaufort, Hyde and Washington Counties, N. C.

Project Ph-61(49) is a graphic compilation project. Field work in advance of compilation included the establishment of supplemental control, complete field inspection, the delineation of contours at five-foot interval directly on the photographs by plane-table methods and the investigation of political boundaries and geographic names.

Map T-9839 was compiled at a scale of 1:20,000 using nine-lens photographs taken in 1951. The map was field edited in 1954.

Items registered under T-9839 will include a descriptive report, a copy of the map manuscript at a scale of 1:20,000 and a copy of the published map at a scale of 1:24,000.

FIELD INSPECTION REPORT

In addition to the phases listed on pages 2 and 3, field work was accomplished by the following personnel:

<u>Name and Title</u>	<u>Phase</u>	<u>Date</u>
Matthew A. Stewart, Cartographic Survey Aid	Vertical Control (Third order levels)	July, 1951
James E. Hundley, Cartographer	Horizontal Control Third Order Monumented Traverse	October, 1951
Henry R. Spies, Cartographic Survey Aid	Horizontal Control Non Monumented Traverse	December, 1951

2. AREAL FIELD INSPECTION

The post villages of Venona and Pike Road are the only communities within the limits of this quadrangle. The eastern quarter of the quadrangle is accessible. It is serviced by N. C. Highway No. 99 and secondary roads. N. C. Highway No. 32 cuts across the northwestern corner. The rest of the quadrangle is inaccessible. The inaccessible portion of the area is cut up by drainage canals.

The industries are agriculture and beef cattle.

It is believed that the field inspection is adequate.

3. HORIZONTAL CONTROL

(a) Two third-order traverse monuments fall within this quadrangle. They are as follows:

CI-RE-2, 1951
CI-RE-2A, 1951

For additional information on horizontal control established, see special report on horizontal control, which is a part of this report.

4. VERTICAL CONTROL

(a) A third-order level line~~s~~ was run from Plymouth to the vicinity of Pantego. The following third-order bench marks were established within this quadrangle:

H-250, 1951
J-250, 1951
K-250, 1951
L-250, 1951
M-250, 1951

The following third-order bench marks were established and are south of this quadrangle:

S-250, 1951
T-250, 1951
U-250, 1951

(b) Fly levels were run to establish supplemental control for contouring. These fly levels originated and were terminated on bench marks or previously established fly level points. The greatest error of closure was 0.16 foot. No adjustment was made.

(c) The first and last designated level points are 39-1 and 39-26.

5. CONTOURS AND DRAINAGE

Contouring was by plane table methods directly on the field photographs at a contour interval of 5 feet.

The drainage is ~~man-made~~ man-made ditches and canals and flows toward the Pungo River.

Due to the inaccessibility of the area, spot elevations were not obtained on all the spoils of the canals. These spoils are small and it is impossible to show all the detail at the scale of the map.

6. WOODLAND COVER

The cover was classified in accordance with the Topographic Manual.

7. SHORELINE AND ALONGSHORE FEATURES

Inapplicable.

8. OFFSHORE FEATURES

Inapplicable.

9. LANDMARKS AND AIDS

Wenona Fire Tower is recommended for an interior landmark. No landmarks for Nautical Charts, or Aids to Navigation exist within the limits of the quadrangle. X

10. BOUNDARIES, MONUMENTS AND LINES

This is the subject of a special report to be submitted at a later date.

*Special Report on Boundaries by James E. Hundley
filed under project data, Div. of Photogrammetry.*

11. OTHER CONTROL

Listed, is the recoverable topographic station established:

Wenona Fire Tower, 1951

12. OTHER INTERIOR FEATURES

Roads and buildings were classified in accordance with the Topographic Manual, Part II.

13. GEOGRAPHIC NAMES

This is the subject of a special report submitted by Mr. James C. Cregan, Cartographic Survey Aid, dated October, 1951.

Filed in Geo. Names Section, Div. of Charts.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

See items 3, 12 and 13.

2 January 1952

Submitted by:

Allen L. Powell

Allen L. Powell,
Lieutenant, USC&GS

3 January 1952.

Approved by:

Allen L. Powell
for Harry F. Garber
Commander, USC&GS
Chief of Party

SPECIAL REPORT ON HORIZONTAL CONTROL
Project Ph-61(49)

This project joins Projects Ph-20 to the south and Ph-45 to the east, therefore, the horizontal control in Ph-20 and Ph-45, which is located near the boundary, will also be used for Ph-61.

The Control Station Identification Cards, for the stations which are located in Ph-20, were returned to the field and the stations were reidentified on the Ph-61 photographs. These C.S.I. Cards will be submitted with the appropriate quadrangles.

That control which is common to Ph-45 and Ph-61 was identified on the photographs for both projects before the C.S.I. Cards were forwarded to the Photogrammetric Office. This control consists chiefly of points located along a third-order monumented traverse that was run by this party in Ph-45.

To supplement this control, and the few stations situated along the northern boundary of the project, one third-order monumented traverse and two nonmonumented traverses were run in this project. These traverses are indicated on a letterhead size project diagram which is a part of this report.

27 December 1951
Submitted by:

George E. Varnadoe
George E. Varnadoe,
Cartographic Engineer

27 December 1951
Approved by:

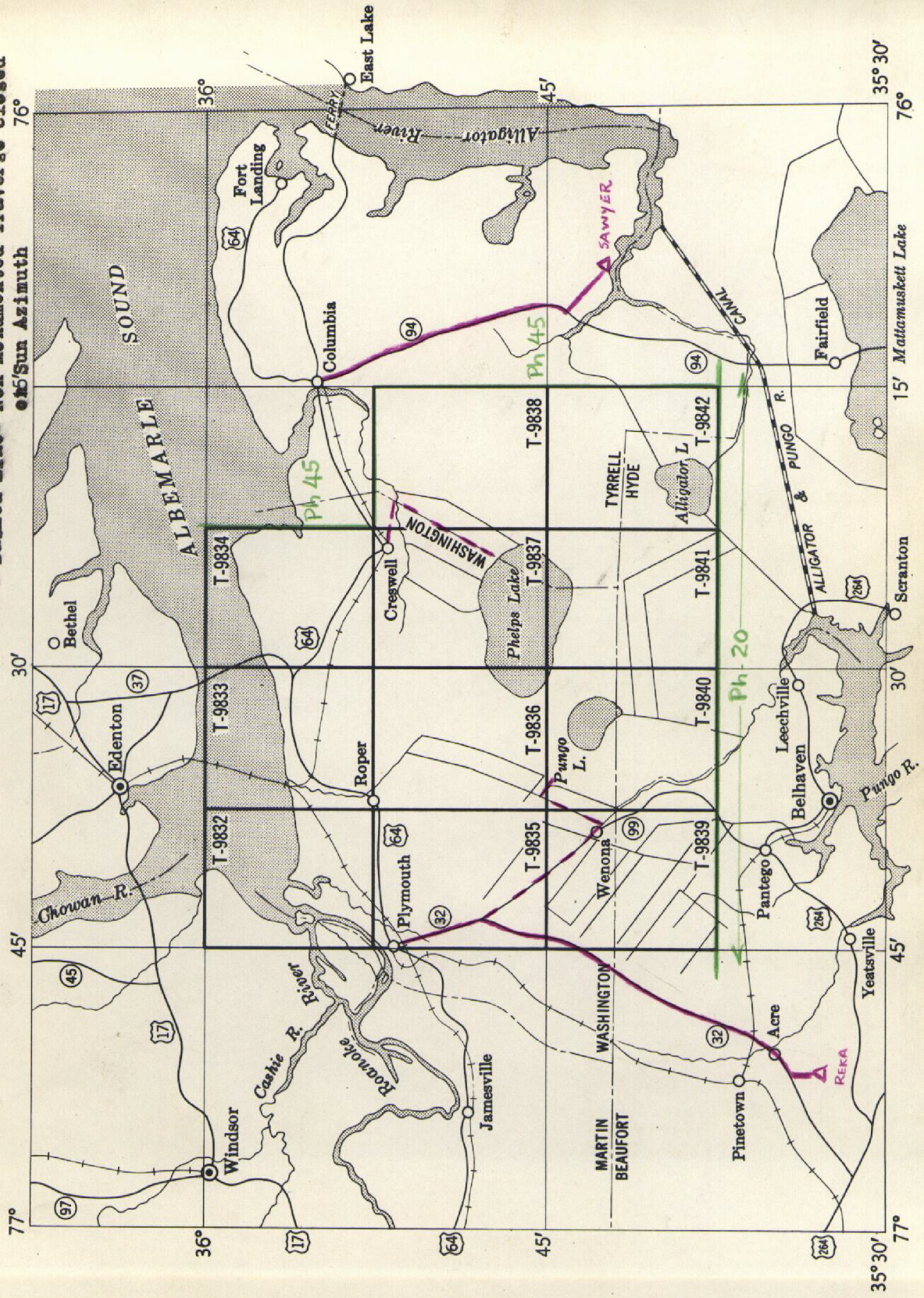
for George E. Varnadoe
Harry T. Garber
Commander, USC&GS
Chief of Party

TOPOGRAPHIC MAPPING PROJECT PH-61-(49)

NORTH CAROLINA, Albemarle Sound and Vicinity

LEGEND

Compilation scale 1:20,000
 Solid Line- Third Order Monumented Traverse
 Dashed Line- Non Monumented Traverse closed
 085° Sun Azimuth 76°



MAP T-.....9839.....

PROJECT NO.:

Ph-67(49)

SCALE OF MAP..... 1:20,000

SCALE FACTOR.

[illegible]

1 FT. = .3048006 METER

COMPUTED BY: T.I. Saperstein

DATE 14 March 1952

CHECKED BY: **R. J. Pate**

DATE 21 March 1952

M-2388-12

10

COMPILATION REPORT T-9839

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-9834.

31. DELINEATION.

Compiled by graphic methods.

Photographs were clear and of reasonably good scale.

The field inspection was adequate.

32. CONTROL.

Placement, density and identification of control were adequate for locating detail points.

33. SUPPLEMENTAL DATA.

None used.

34. CONTOURS AND DRAINAGE.

Drainage ditches comprise a large proportion of the area delineated. Only ditches believed to be of primary importance in the drainage system are shown. These are delineated according to the compiler's interpretation.

See §57

No difficulty was encountered in the delineation of contours.

35. SHORELINE AND ALONGSHORE DETAILS.

Inapplicable.

36. OFFSHORE DETAILS.

Inapplicable.

37. LANDMARKS AND AIDS.

Reference Item 9.

38. CONTROL FOR FUTURE SURVEYS.

Two (2) Forms 524 are being submitted. Reference Item 11. Recoverable topographic station Boundary Monument, 1951, falls outside the project but was located and Form 524 is being submitted. *Filed with forms 524 for T-9839. ENR*

39. JUNCTIONS.

Satisfactory junctions have been made with T-9835 on the north, T-9840 on the east. T-8969 (Ph 20(47)) on the south has a few minor discrepancies which should be resolved by the Washington Office.

See §67

There is no contemporary survey to the west.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

See §66

46. COMPARISON WITH EXISTING MAPS.

A comparison was made with the PLYMOUTH quadrangle, (U. S. Corps of Engineers), scale 1:125,000, compiled in 1942. Other than new roads, no important differences were noted.

*See §62
F §63*

47. COMPARISON WITH NAUTICAL CHARTS.

Area is not covered by any nautical chart.

Richard A. Reece
Richard A. Reece
Carto Photo Aid

APPROVED AND FORWARDED:

J. E. Waugh
J. E. Waugh, Chief of Party

FIELD EDIT REPORT
Project PH-61(49)
Quadrangle T-9839

51. METHODS

The field edit of this area was accomplished by standard surveying methods in conjunction with visual inspection. Actual field work was completed in June, 1954.

Field edit data appears on the field edit sheet, discrepancy print, field photographs 33135, 33136, 33156 (1 of 2), and in this report.

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

52. ADEQUACY OF COMPILATION

The map compilation is adequate and will be complete after field edit revisions have been applied.

53. MAP ACCURACY

The horizontal accuracy of the map detail is relatively good.

The accuracy of the contouring, in general, is good.

54. RECOMMENDATIONS

Recommend that Item 55 - "Examination of Proof Copy" be discontinued for the following reason: It is believed that the field editor does a more thorough job of checking the accuracy of compilation of any area than some uninterested individual.

Sec 566

} no opp.

56. FIELD INSPECTION

Refer to Item 2 - Areal Field Inspection.

The area mentioned in the above reference, inaccessible, is void of trees, having been burned over several times in the past, consists of peat about one and one-half feet thick, which absorbs water easily but emits, a great part, only by evaporation, except in those areas diverted to cultivation. Under cultivation these areas are ditched, intermittent drainage feeding to main drainage (laterals in this case), the peat is plowed and mixed with the subsoil, which reduces the peat efforts to hold the water. All other areas of this type, some of which are in Quadrangles T-9835, T-9836 and T-9840 are classified as marsh. (Note: Letter from Chief, Division of Photogrammetry, dated 1 April 1954, 78-aal, which is enclosed.)

57. DRAINAGE

Refer to Item 34 - Compilation Report.

All feeder ditches have been deleted from the field edit sheet. Those ditches that have been deleted, from all quadrangles in this project, are intermittent drainage only. All perennial (main) drainage throughout the entire project has been shown on the field edit sheets. It will be noticed that several lateral ditches have been shown as main drainage in large areas of marsh. This is perfectly logical in these particular areas.

The fifteen foot contour, originally omitted on photograph 33136, has been sketched on that photograph. However, leaving it off would not reduce the accuracy of contouring of the map.

58. OTHER INTERIOR FEATURES

Refer to Item 12 - Field Inspection Report.

The reclassification of roads and buildings, where justifiable, has been shown on the field edit sheet.

Additional buildings have been shown on the field edit sheet.

59. JUNCTIONS

Satisfactory junctions have been made with all adjacent contemporary surveys.

25 June 1954
Submitted by:

James E. Hundley
James E. Hundley
Cartographer

25 June 1954
Forwarded by:

J. E. Waugh
J. E. Waugh
GDR, USC&GS
Chief of Party

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9839

1. Projection and grids R.D. 2. Title R.D. 3. Manuscript numbers R.D. 4. Manuscript size R.D.

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) R.D. 7. Photo hydro stations XX 8. Bench marks R.D. 9. Plotting of sextant fixes XX 10. Photogrammetric plot report R.D. 11. Detail points R.D.

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline XX 13. Low-water line XX 14. Rocks, shoals, etc. XX 15. Bridges XX 16. Aids to navigation XX 17. Landmarks XX 18. Other alongshore physical features XX 19. Other along-shore cultural features XX

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads R.D. 28. Buildings R.D. 29. Railroads XX 30. Other cultural features R.D.

BOUNDARIES

31. Boundary lines R.D. 32. Public land lines XX

MISCELLANEOUS

33. Geographic names R.D. 34. Junctions R.D. 35. Legibility of the manuscript R.D. 36. Discrepancy overlay R.D. 37. Descriptive Report R.D. 38. Field inspection photographs R.D. 39. Forms R.D. 40. Rudolph Bossett Jesse A. Giles
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:

Review Report
Topographic Map T-9839
28 December 1954

62. Comparison with Registered Topographic Surveys:

None.

63. Comparison with Maps of Other Agencies:

Plymouth Quadrangle (C. of E. 1:125,000) 1943

A Visual comparison reveals that a few changes in culture are the only significant differences.

64. Comparison with Contemporary Hydrographic Surveys:

Inapplicable.

65. Comparison with Nautical Charts:

No existing charts cover this area.

66. Adequacy of Results and Future Surveys:

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

67. Junctions:

Reference Item 39. T-9839 shows an unimproved dirt road at longitude $76^{\circ} 38' 3''$ which is shown as spoil on T-8969. This has been retained on T-9839 because it is the only access road to an area of the map. Map T-8969 shows some lesser ditches which were determined by the field editor as too minor to map (see Item 57). Otherwise, the two maps junction satisfactorily.

Reviewed by:

Everett H. Ramey
Everett H. Ramey

APPROVED:

Lester C. Lande
Chief, Review Section
Div. of Photogrammetry

Will Swanson
Chief, Div. of Photogrammetry

11 April 57

Max P. Kietto
Chief, Nautical Chart Branch
Div. of Charts

Samuel B. Grenell
Ray J. Bowie
Chief, Div. of Coastal Surveys

48. GEOGRAPHIC NAME LIST.

- BEAUFORT COUNTY ✓
- CANAL A ✓
- CANAL B ✓
- CURRITUCK TOWNSHIP ✓
- EAST DISMAL SWAMP ✓
- HOLLIS ROAD ✓
- HYDE COUNTY ✓
- INDIAN RUN ✓
- INTERCEPTING CANAL ✓
- LEES MILLS TOWNSHIP ✓
- LONG ACRE ROAD ✓
- MORNING STAR CHURCH ✓
- NO. 2 CANAL ✓
- NO. 3 CANAL ✓
- NORTH CAROLINA ✓
- OLD TURNPIKE ✓
- OREGON CANAL ✓
- OREGON ROAD ✓
- PANTEGO TOWNSHIP ✓
- PAUL ROAD ✓
- PIKE ROAD ✓
- PIKE ROAD (COMMUNITY) ✓
- PLYMOUTH TOWNSHIP ✓
- PUNGO RIVER CANAL ✓
- STATE 32 ✓
- STATE 99 ✓
- VAN SWAMP BRIDGE ✓
- WASHINGTON COUNTY ✓
- WENONA ✓
- WENONA CHURCH ✓
- Wenona Fire Tower

Names approved 9-29-53,
on basis of project name
report.
L. Hack

49. NOTES FOR THE HYDROGRAPHER.

None.