

9283

X

Diagram Chart No. 1229

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. PH-45(49) Office No. T-9283

LOCALITY

State NORTH CAROLINA

General locality PAMLICO SOUND

Locality STUMPY POINT

1948 - 53

CHIEF OF PARTY

Harry F. Garber, Chief of Field Party
J.E. Waugh, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE APRIL 27, 1955

3320

DATA RECORD

T 9283

Project No. (II): **Ph-45(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): **19 January 1951**
(Supplement one) 19 January 1950
15 Sept 1949

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): **16 June 52** Date reported to Nautical Chart Branch (IV): **JUN 28 1952**

Applied to Chart No.

Date:

Date registered (IV): **10 Feb 1955**

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): **BING RM 2, 1933**

Lat.: **35° 37' 35".417 (1091.5m)** Long.: **75° 43' 47".954 (1206.7m)**

Unadjusted

Plane Coordinates (IV): **N.E. Lambert**

State: **N.C.**

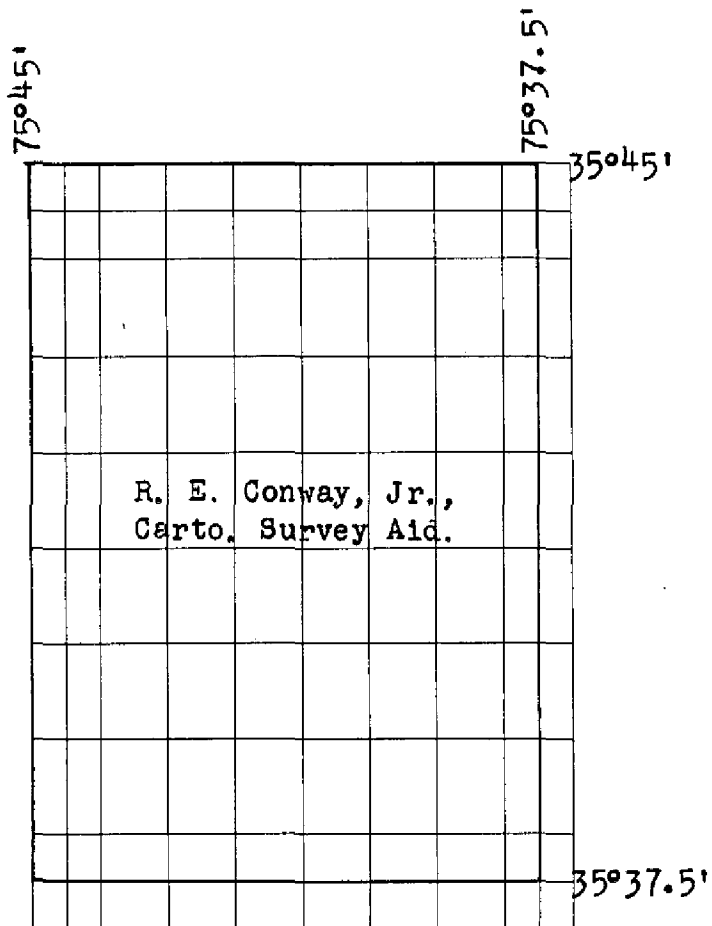
Zone:

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): R. E. Conway, Jr., Cart. Sur. Aid
R. L. McGlinchey, Cart. Sur. Aid

Date: August, 1950
March, 1951

Planetable contouring by (II): R. E. Conway, Jr., Cart. Sur. Aid

Date: August, 1950

Completion Surveys by (II): R. L. McGlinchey

Date: March 1953

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

April 1950

Projection and Grids ruled by (IV): L. B. C. (W.O.)

Date: 12 July 1951

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

Date: 16 July 1951

Control plotted by (III): R. J. Pate

Date: 27 July 1951

Control checked by (III): I. I. Saperstein

Date: 30 July 1951

~~Radial Plot or Stereoscopic~~
~~Control extension~~ by (III): M. M. Slavney

Date: 9 Aug. 1951

Planimetry
Stereoscopic Instrument compilation (III): Inapplicable
Contours

Date:

Date:

Manuscript delineated by (III): R. R. Wagner

Date: 17 Jan. 1952

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

Date: 8 April 1952

Elevations on Manuscript
checked by (III): J. A. Giles

Date: 8 April 1952

Camera (kind or source) (III): **USC&GS Nine-lens, 8 $\frac{1}{4}$ inch Focal length. Fairchild Cartographic 6" Metrogon lens Camera "0"**

PHOTOGRAPHS (III)

| Number | Date | Time | Scale | Stage of Tide |
|-----------|--------------|-------|----------|--------------------------------|
| 49-0-1708 | 5 Dec. 1949 | 11:40 | 1:20,000 | No tide (Negligible) <i>SM</i> |
| 1709 | " " | 11:41 | " | " |
| 1710 | " " | 11:42 | " | " |
| 1742 | " " | 12:20 | " | " |
| 1743 | " " | 12:20 | " | " |
| 22109 | 29 Mar. 1948 | 11:44 | " | " |
| 22110 | " " | 11:45 | " | " |

Tide (III)

No tide

Reference Station:
Subordinate Station:
Subordinate Station:

Less than $\frac{1}{4}$ foot SM

| Ratio of Ranges | Mean Range | Spring Range |
|-----------------|------------|--------------|
| | | |
| | | |
| | | |

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

Date: *31 Dec 1953*

Final Drafting by (IV): *Edward L. Longley*

Date: *8-24-54*

Drafting verified for reproduction by (IV): *W.O. Halluin*

Date: *9-2-54*

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **10**

Shoreline (More than 200 meters to opposite shore) (III): **11**

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

Control Leveling - Miles (II): **12 (third order)**

Number of Triangulation Stations searched for (II): **4** Recovered: **1**

Identified: **1**

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III): **4**

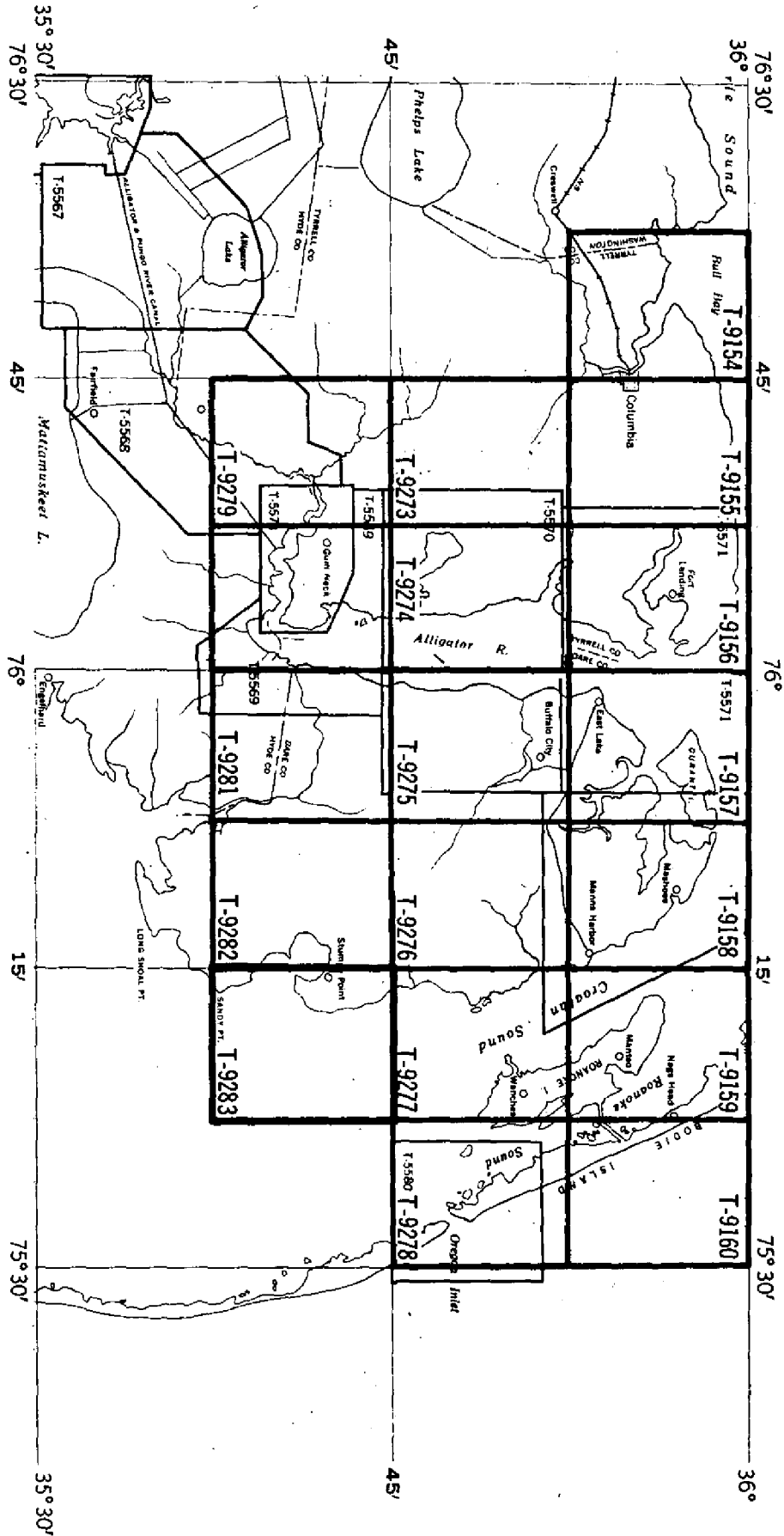
Number of Temporary Photo Hydro Stations established (III):

Number of bench marks established **21**

Identified **21**

Remarks:

TOPOGRAPHIC MAPPING PROJECT PH-45 (49) NORTH CAROLINA, Vicinity of Albemarle Sound



Summary to Accompany Topographic Map T-9283

Map T-9283 is one of eighteen topographic maps in project Ph-45(49). It covers a portion of Pamlico Sound and adjacent land area which includes Sandy Point and Drain Point.

Project Ph-45(49) is a graphic compilation project. Field work in advance of compilation included complete field inspection, the recovery and identification of control, the establishment of third-order vertical control, the delineation of contours at 5-foot interval directly on the photographs by planetable methods, the location of political boundaries and the investigation of geographic names.

Map T-9283 was compiled at a scale of 1:20,000 using nine-lens photographs taken in 1948 and single-lens photographs taken in 1949. The map was field edited. After the addition of hydrography the map will be forwarded to the Geological Survey for publication as a standard 7½ minute topographic map.

Items registered under T-9283 will include a descriptive report, a lithographic print of the map manuscript at a scale of 1:20,000 and a color print of the published map at a scale of 1:24,000.

FIELD INSPECTION REPORT
Quadrangle T-9283
35°-37'-30"/75°-37'-30"
Project Ph-45(49)

Harry F. Garber, Chief of Party

The field work for this quadrangle was done in accordance with Instructions for Ph-45(49), dated 19 January 1950. Field work was done by the following personnel:

| <u>Name and Title</u> | <u>Phase</u> | <u>Date</u> |
|---|---|----------------|
| Richard L. McGlinchey Cartographic Survey Aid | Horizontal Control and Recovery; Field Inspection | April, 1951 |
| Richard E. Conway, Jr. Cartographic Survey Aid | Field Inspection Contouring | August, 1950 |
| John R. Smith Cartographic Survey Aid | Leveling (Third Order) | November, 1949 |

This report is written in accordance with Paragraph 724 of the Topographic Manual (Special Publication No. 249).

2. AREAL FIELD INSPECTION

This quadrangle lies in the southwestern part of Dare County embracing portions of the western shore of Pamlico Sound at the entrance to Stumpy Point Bay. Only one road, serving the settlement of Stumpy Point, and connecting to U. S. Highway 264. Ninety per cent of the quadrangle is water and the remaining land area is practically all swamp or marsh. The buildings in Stumpy Point are all built on piling and the roads are of fill. The whole area is of very low elevation.

The only industry is fishing. The town of Stumpy Point was originally established as a fishing village, and until recently the only access to it was by water. There are no cultivated areas within the quadrangle.

Some difficulty was encountered in the interpretation of the photographs in the developed area around Stumpy Point. Because of a haze or diffusion existing in this area, field inspection and classification of buildings became quite difficult.

The field inspection is believed to be complete.

3. HORIZONTAL CONTROL

A search was made for all known control.

Stations reported as "Lost" or "Not Recovered" are:

Roots, 1933
Stumpy Point, 3, 1903
Sandy Point 4, 1917

4. VERTICAL CONTROL

A Third Order Level Line, originating at Pinetown, and terminating at Mackeys, North Carolina, was run along U. S. Highway 264 with bench marks established at approximately one-mile intervals. A spur line was run into this quadrangle with two bench marks established. The line was adjusted by the Washington Office.

Bench marks established by this party are:

E-247, 1949 *Falls on T-9252*
F-247, 1949

There is no other known vertical control within the quadrangle.

5. CONTOURS AND DRAINAGE

Plane table elevations were established directly on single lens photographs. No elevation of five feet or over was found within the limits of this quadrangle.

Drainage in the area is affected by the wind tides of Pamlico Sound. Numerous ditches serve the built-up area of Stumpy Point. These will drain out dry or fill up to flood level, depending on the direction of the wind. Normally, with no sustained winds, the ditches remain at three-quarter level and drainage is very slight.

6. WOODLAND COVER

The cover was classified in accordance with paragraph 5433 of the Topographic Manual. All accessible areas were classified on the photographs. As all the land area is low and very wet, some difficulty was encountered in establishing a line between swamp

and trees. True swamp of cypress and gum would tend to blend into areas of pine and gum of rather fast land, yet no definite change of tone was noted on the photographs to delineate an accurate line of demarcation between the two. Sufficient areas are believed classified to enable the compiler to delineate those areas that were inaccessible. Reference is made to paragraph 6 of the field inspection report for quadrangle T-9154. *for a slightly more detailed discussion of swamp classification. ENR*

7. SHORELINE AND ALONGSHORE FEATURES

(a) The shoreline consists of about sixty per cent apparent and forty per cent of fast shoreline. The areas of cypress and marsh around Stumpy Point Bay being all apparent shoreline.

(b) No attempt was made to delineate the low water line. There is no periodic tide change. *Tide is less than 1/4 foot. ENR*

(c) The shoreline along Pamlico Sound is eroding at a considerable rate. Fishermen in the area state that many prominent features along the shore that were landmarks, have washed away in recent years. The shoreline is generally foul with stumps and fallen trees.

(e) Numerous landings have been built along the canal near the southern end of Stumpy Point. There are no piers, landings, or docks along the Bay or Sound.

8. OFFSHORE FEATURES

There were no offshore features noted during field inspection.

9. LANDMARKS AND AIDS

(a) No landmarks for charts are recommended.

(b) No interior landmarks are recommended.

(c) There are no aeronautical aids within the quadrangle.

(d) One fixed aid to navigation is recommended for charting. This is STUMPY POINT BAY LIGHT. For methods used in locating that light, see Field Inspection Report for T-9282. *See §37*

10. BOUNDARIES, MONUMENTS, AND LINES

A special report on boundaries, Ph-45(49)*, has been submitted by Richard L. McGlinchey, Cartographic Survey Aid. There are no boundary lines or monuments within the limits of this quadrangle.

** Filed in Div. of Photogrammetry under project data. ENR*

11. OTHER CONTROL

Four recoverable topographic stations were established along the western shore of Pamlico Sound. They are:

PLAY, 1951
HAIL, 1950
BOOK, 1951
FAIR, 1950

Also listed under § 49

12. OTHER INTERIOR FEATURES

All roads and buildings have been classified in accordance with paragraphs 5441 and 5446 of the Topographic Manual.

13. GEOGRAPHIC NAMES

This will be the subject of a "Special Report" ^{*} to be submitted at a later date.

** Report by Merle W. Smith. Filed in Geographic Names Sect., Div. of Charts.*

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

None. *See § 10 & § 13 above.*

7 May 1951
Submitted by:

R. L. McGlinchey
Richard L. McGlinchey
Cartographic Survey Aid

11 May 1951
Approved by:

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

COPY

REPORT ON TRAVERSE NSA
VICINITY OF STUMPY POINT, N.C.
Ph-45

1. In order to control the ends of the flight lines in the southeastern section of Ph-45, a traverse was run along U. S. Highway 264 in the vicinity of Stumpy Point, North Carolina. Stations METROPOLITAN, 1933, and N. C. G. S. 260, that normally would suffice as horizontal control in this area, could not be recovered and additional control was necessary. Three control points were established.
2. The traverse was begun at Station M-1 (USE) and ran southward for about four miles to traverse station NSA-13, closing on a sun azimuth. As the companion monument M-2 (USE) could not be recovered, the azimuth of the line N-1 (USE) - N-2 (USE) was carried to station M-1 (USE) by observing horizontal angles along the highway. A position check was made at Metropolitan R. M. No. 1, 1933, along the traverse line with a very small closure. No adjustment was made.
3. Angles were measured with a Wild theodolite, using three positions of the circle. The distances were taped with a 300-ft. steel tape at 15 kg. tension supported throughout. The tape was calibrated by a standardized 50 meter Invar tape before and after the traverse. No grade corrections were applied as all traverse lines were on the highway, which is very flat. Backward measurements were taken to the nearest foot to guard against blunders. Two solar observations were taken at the closing station to check the computed azimuth.
4. Field computations consisted of computing coordinates in feet to the Lambert Grid of Pipe Station N1, N2 and M2 (USE), and the Plane Azimuth between N1 and N2; correcting distances; computation of azimuth and sun azimuth; computation of coordinates of three control points and position check at Metropolitan R. M. No. 1. The coordinates of the control points have been shown on the pricking cards for the control points, and will be forwarded to the Tampa Photogrammetric office when the quadrangle data is submitted.

Submitted by:

Richard L. McGlinchey,
Cartographic Survey Aid

Approved and Forwarded:

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

COPY

Photogrammetric Plot Report

This report covers surveys T-9154 through T-9158, T-9273 through T-9276 and T-9279 through T-9283. It is filed as part of the Descriptive Report for T-9158.

MAP T-9283

PROJECT NO. PH-45(49)

SCALE OF MAP 1:20,000

SCALE FACTOR None

[illegible]

1 FT. = .3048006 METER

COMPUTED BY: **I. I. Saperstein**

DATE.....24 May 1951.....

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

DATE...24 May 1951

M-2388.12

COMPILATION REPORT T-9283

PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-9158.

31. DELINEATION.

The graphic method was used.

The vegetation line, drawn on the photographs by the field inspector, was transferred to the manuscript with the aid of the projector.

32. CONTROL.

The identification of control points was good. Density and placement were satisfactory.

33. SUPPLEMENTAL DATA.

None used.

34. CONTOURS AND DRAINAGE.

See Item 5.

No difficulty was encountered in delineation of drainage.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was adequate.

See Item 7.

36. OFFSHORE DETAILS.

No statement.

37. LANDMARKS AND AIDS.

No unusual method was used.

38. CONTROL FOR FUTURE SURVEYS.

Four (4) cards, Form 524, are submitted with the data. They are listed under Item 49.

39. JUNCTIONS.

PAMLICO SOUND to the east.

T-9282 to the west - in agreement.

T-9277 to the north - in agreement.

T-8976, Ph 20(47) south, in agreement, ~~except for vegetation to be corrected by the Washington Office.~~ *ENR*

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement.

See §53

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with U. S. Corps of Engineer Quadrangle, ROANOKE ISLAND, N. C., scale 1:125,000, dated 1942. The two are in good agreement.

See §62

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with Chart 1229, scale 1:80,000, published December 1942, corrected to 4 December 1950. The only differences noted were two small islands southwest of OLD POINT (STUMPY POINT on Nautical Chart), which do not appear on the photographs.


See §65

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.


R. R. Wagner, Carto. Photo. Aid

APPROVED AND FORWARDED:


J. E. Waugh, Chief of Party

FIELD EDIT REPORT
Project Ph-45(49)
Quadrangle T-9283

51. METHODS

The field edit for this area was accomplished by traversing, via truck, all roads, and walking to other areas in which the reviewer requested information. The shoreline was inspected from a skiff.

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

The reviewer's questions are answered on the discrepancy print, field edit sheet, and this report. All deletions have been noted on the field edit sheet.

A legend appears on the field edit sheet, stating the various color inks used for the various corrections.

The actual field work was accomplished intermittently during the first two weeks of February, 1953.

52. ADEQUACY OF COMPILATION

The map compilation in general is adequate, and will be complete after field edit data is applied. See §66

53. MAP ACCURACY

The horizontal accuracy of all map detail appears good. See §66

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

It is believed that Mr. Melvin R. Daniels, Dare County Registrar of Deeds, Manteo, North Carolina, or Mr. David Cox, Jr., Registered Land Surveyor, Hertford, North Carolina, is best qualified to examine a proof copy of this work.

The following Geographic Names were investigated in the field:

SHILO CHURCH
SHILO CEMETERY

SHILO Should be spelled SHILOH.

DRAIN POINT

Name verified in the field.

Persons contacted during the investigation were:

| | | |
|--------------------|---------------------|---------------------|
| Mr. G. P. Harris | Stumpy Point, N. C. | Fisherman |
| Mr. D. L. Meekins | " " " | Merchant |
| Mr. J. P. Williams | " " " | Fisherman |
| Mrs. L. C. Midgett | " " " | Resident, 40 years. |

56. JUNCTIONS

A satisfactory junction has been made with T-9277 on the north, and T-9282 on the west. Pamlico Sound is on the east. No junction was made with Project Ph-20(47) on the south. *

* In agreement. ENR

12 March 1953
Submitted by:

Richard L. McGlinchey
Richard L. McGlinchey, /ps.
Cartographic Survey Aid

25 March 1953
Approved by:

Paul Taylor
Paul Taylor
Lt. Comdr., USC&GS
Chief of Party

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- T-9283

1. Projection and grids J.G. 2. Titles 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 XXX 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. 13. Low-water line XXX 14. Rocks, shoals, etc. XXX 15. Bridges XXX 16. Aids to navigation J.G. 17. Landmarks XXX 18. Other alongshore physical features J.G. 19. Other along-shore cultural 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 XXX 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 XXX 30. Other cultural features J.G.

BOUNDARIES

31. Boundary lines J.G. 32. Public land lines XXX

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 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:

48. GEOGRAPHIC NAME LIST.• CROATAN TOWNSHIP ✓DARE COUNTY ✓• DRAIN POINT ✓• KENNEKEET TWP. ✓• NORTH CAROLINA ✓• OLD POINT ✓• PAMLICO SOUND ✓• SANDY POINT ✓• SHILOH CHURCH ✓• SHILOH CHURCH CEMETERY ✓• STUMPY POINT ✓• STUMPY POINT BAY ✓• WILD BOAR POINT ✓

Names checked & approved

12-29-53

A. J. W.

49. NOTES FOR THE HYDROGRAPHER.

Recoverable topographic stations of use to the hydrographer
are as follows:

PLAY, 1951

HAIL, 1950

BOOK, 1951

PAIR, 1950

PHOTOGRAMMETRIC REVIEW SECTION

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR NAVIGATIONAL MARKS FOR CHARTS

TO BE CHARTED STRIKE OUT ONE
~~NO/BA/DELATION~~

Tampa Photogrammetric Office, Tampa, Fla. 9 April 1952

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

The positions given have been checked after listing by

Robert R. Wagner

J. P. Laugh Chief of Party.

| STATE | CHARTING NAME | DESCRIPTION | SIGNAL NAME | POSITION | | | | | | METHOD OF LOCATION AND SURVEY No. | DATE OF LOCATION | HARBOR CHART | INSHORE CHART | OFFSHORE CHART | CHARTS AFFECTED |
|----------------|------------------------|-------------|-------------|------------|--------------|-------------|--------------|--------------|--------------------------|-----------------------------------|------------------|--------------|---------------|----------------|-----------------|
| | | | | LATITUDE * | | LONGITUDE * | | DATUM | | | | | | | |
| | | | | ° ' " | D. M. METERS | ° ' " | D. P. METERS | | | | | | | | |
| NORTH CAROLINA | STUMPY POINT BAY LIGHT | | | 35 40 | 15.96 492 | 75 44 | 34.31 663 | N.A. 1927 | Radial Plot X-9263 | 19 Feb. 1951 | | X | | 1229 | |
| | | | | | | | | | | | | | | | |
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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

History of Hydrographic Information for T-9282

Hydrography was added to the map manuscript in accordance with the General Specifications of 18 May 1949.

Depth curves and soundings are in feet at mean low water datum and originate with the following:

Hydrographic survey:

H-1362 1:20,000 1875-77

Nautical Chart

1229 1:80,000 1942 corrected to 53-8/24

Hydrography was compiled by Everett H. Ramey on 13 September 1954 and verified by O. Svendsen on 29 September 1954.


Everett H. Ramey

Review Report
Topographic Map T-9283
31 December 1953

62. Comparison with Registered Topographic Surveys.-

T-1385 1:20,000 1875

Differences in shoreline as great as 80 meters exist between the two surveys. Survey T-9283 is to supersede the above survey for nautical charting purposes for common areas between the surveys.

63. Comparison with Maps of Other Agencies.-

Roanoke Island, N.C. (C.of E.) 1943 1:125,000
In general agreement.

64. Comparison with Contemporary Hydrographic Surveys.- None

65. Comparison with Nautical Charts.-

1229 1:80,000 1942, corr. to 53- 8/24

Shoreline differences under sub-heading 62 apply also to the chart. The name "Stumpy Point" used on the chart should be corrected to "Drain Point". Also see sub-heading 47 which applies.

66. Adequacy of Results and Future Surveys.- This map meets the National Standards of Map Accuracy and complies with project instructions.

Reviewed by:

Everett H. Ramey
Everett H. Ramey

APPROVED

L. C. Lande 15 Feb 1955
Chief, Review Branch
Div. of Photogrammetry

H. R. Ramey
Chief, Nautical Chart Branch
Div. of Charts *GR*

May Skukitts
Chief, Div. of Photogrammetry

Carl S. Heston *KE*
Chief, Div. of Coastal Surveys