

10670

Original

77-6 & 78-4

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Diag. Cht. Nos. 77-6 and 78-4.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-161 Office No. T-10670

LOCALITY

State Virginia-Maryland

General locality Potomac River

Locality Bonum Creek

1955-1958

CHIEF OF PARTY

Joseph K. Wilson, Chief of Party

William E. Randall, Baltimore District Officer

LIBRARY & ARCHIVES

DATE _____

USCOMM-DC 5087

10670

DESCRIPTIVE REPORT - DATA RECORD

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T - 10670

Project No. (II): Ph-161

Quadrangle Name (IV):

Field Office (II): Callao, Virginia

Chief of Party: Joseph K. Wilson

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: William E. Randall

Instructions dated (II) (III): 9/16/57, 73/rab

Copy filed in Division of
Photogrammetry (IV)

Director's ltr. dated 12/6/57, 73/rab
" " " 5/5/58, 732/rnj
Asst. " " " 5/5/59, 73/rab
Ch. Photo. Div. " " 7/23/58, 73/rnj

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6,000
(Pantograph ratio 3/5)

Scale Factor (III): 1.000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: M. H. W.
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): KILMON 1932

(T-10669)

Lat.: 38° 06' 06.724" (207.3 m) Long.: 76° 39' 09.282" (226.1 m)

Adjusted

~~UNADJUSTED~~

Plane Coordinates (IV):

State:

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.

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

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Inapplicable

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

DESCRIPTIVE REPORT - DATA RECORD

- 4 -

Field inspection by (II): Joseph K. Wilson

Date: Sept. 1957 thru
June 1958

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

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

11 November 1955 (Date of Photography)

Supplemented by 1958 photography.

Projection and Grids ruled by (IV): P. J. Dempsey

Date: 11/1/58

Projection and Grids checked by (IV): R. D. Shoup

Date: 11/12/58

Control plotted by (III): D. M. Brant

Date: 1/21/59

Control checked by (III): H. P. Eichert

Date: 1/21/59

Radial Plot or Stereoscopic
Control extension by (III):

G. M. Ball

Date: 9/10/58
5/15/59

E. L. Rolle (Kelsh Model Bridge)

Planimetry (J. C. Richter - S/2
(E. L. Rolle - N/2

Date: 6/5/59

Stereoscopic Instrument compilation (III):

~~9/15/59~~

Date:

scribed
Manuscript ~~checked~~ by (III):

J. C. Cregan

Date: 12/22/60

Photogrammetric Office Review by (III): J. C. Richter

Date: 8/1/60

Elevations on Manuscript
checked by (II) (III):

Date:

DESCRIPTIVE REPORT - DATA RECORD

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Camera (kind or source) (III): U.S.C. & G. S. "W" and "S" focal length

PHOTOGRAPHS (III)

Number	Date	Time (est.)	Scale	Stage of Tide
55-W-2255 thru 2257	11/11/55	12:55	1:30,000	1.4' above MLW
58-S-6437 & 6438	8/5/58	14:05	1:40,000	0.8' " "

Tide (III) (From predicted tables)

Reference Station: Washington, D. C.
Subordinate Station: Travis Pt, Coan R., Virginia
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	2.9'	3.3'
0.48	1.4'	1.7'

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 10
Shoreline (More than 200 meters to opposite shore) (III): 3.9 mi.
Shoreline (Less than 200 meters to opposite shore) (III): 8.5 mi.
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 1
Number of BMS searched for (II):
Number of Recoverable Photo Stations established (III): 2
Number of Temporary Photo Hydro Stations established (III): 0

Recovered: None
Recovered:

Identified: None
Identified:

Remarks:

PHOTOGRAMMETRIC PLOT REPORT
Project Ph-161
T-10670

The field inspection report is bound with Descriptive Report for Survey T-10661.

21. AREA COVERED

T-10670, T-10671, T-10674 and T-10759.

22. METHOD

Three Kelsh model templet bridges were run to supplement the stereo-planigraph bridging. See photogrammetric plot report bound with Descriptive Report for T-10661.

The first bridge was run from 55-W-2276 through 2280. One control point, Sub. Pt. DOWNING, 1931 and passpoints from stereoplanigraph bridges 2, 3 and 4 were available. With the exception of two passpoints from strip 2, all other points held within 0.5 mm. The discrepancy in the two points was more than a millimeter. Additional needed passpoints were located for surveys T-10671 and T-10674.

The bridge from 55-W-2252 through 2258 was needed to furnish additional passpoints for surveys T-10670 and T-10759. This strip was run in two parts, 55-W-2252 through 2255, and 55-W-2254 through 2258. The latter bridge was between two control points, Sub. Pt. CAREY, 1934 and Sub. Pt. MON 17. When these were held, the discrepancy between passpoints from the stereo-bridging was erratic and varied from a few tenths of a mm. to over one mm. on one point.

The bridge 55-W-2252 through 2255 was between Sub. Pt. CAREY, 1934 and passpoint 7903 from strip 4. This latter point was held in the Kelsh bridge from 55-W-2276 through 2280, and assured a tie between the surveys. Nevertheless, this left a discrepancy of over one mm. in the passpoints from strip 2. These points were relocated.

See sketch of control attached.

23. ADEQUACY OF CONTROL

Horizontal control was obviously meager, therefore the area may be substandard. The weakest area may be in T-10759, since the passpoints from strip 2 could not be held. These inadequacies were verbally discussed with the Chief, Cartographic Branch at the Washington office.

24. SUPPLEMENTAL DATA

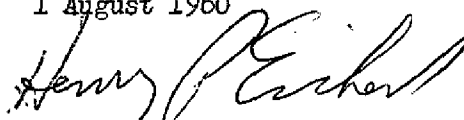
None.

25. PHOTOGRAPHY

Photographic coverage, overlap, and definition were adequate.

Respectfully submitted

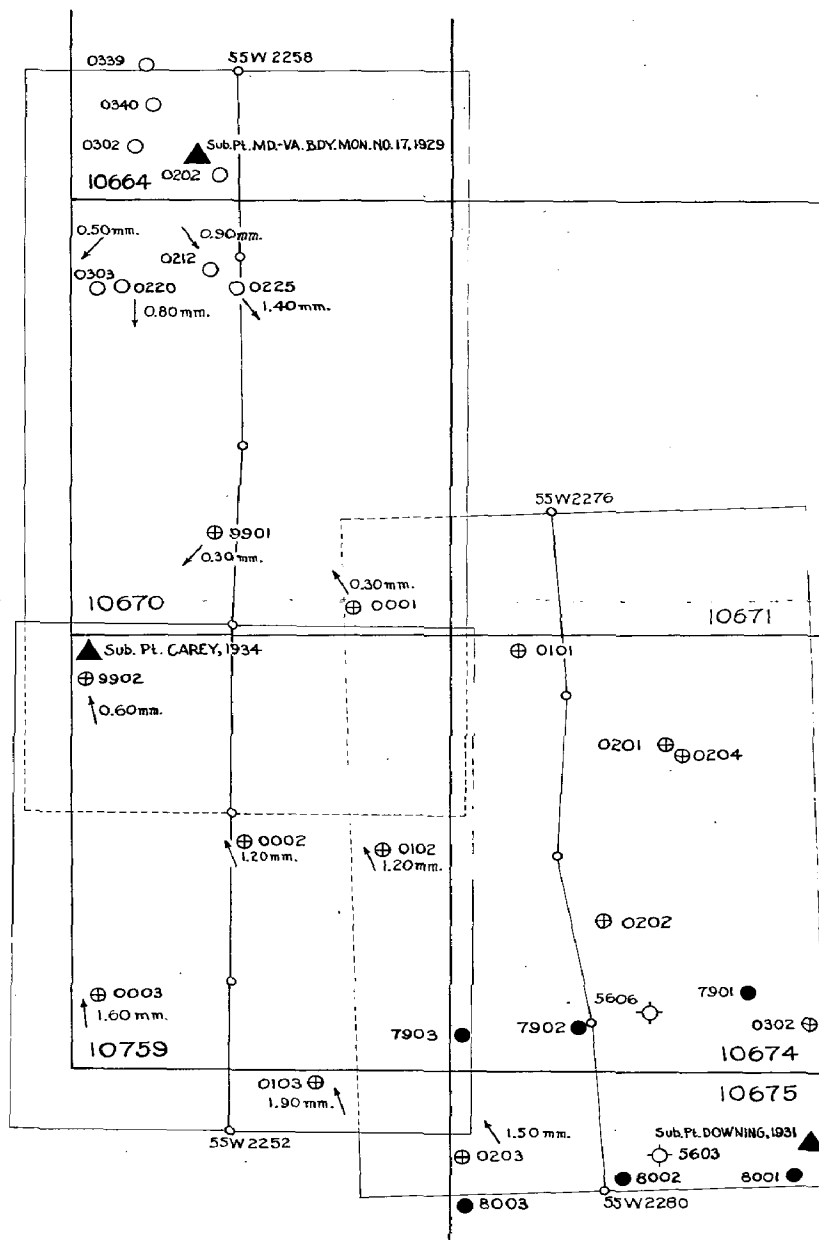
1 August 1960

A handwritten signature in dark ink, appearing to read "Henry F. Eichert". The signature is fluid and cursive, with the first name "Henry" and last name "Eichert" clearly distinguishable.

Henry F. Eichert

Super. Carto. (Photo.)

SKETCH OF CONTROL
PROJECT Ph-161
POTOMAC RIVER, MD. AND VA.
KELSH MODEL TEMPLATE BRIDGES



LEGEND

STEREOPLANIGRAPH PASS POINTS

- STEREO BRIDGE N° 1
- ⊕ STEREO BRIDGE N° 2
- ⊙ STEREO BRIDGE N° 3
- STEREO BRIDGE N° 4

NOTE: PASS POINTS WITHOUT DIRECTION OR DISTANCE
INDICATED WERE HELD WITHIN 0.50 mm.

COMPILATION REPORT
Project Ph-161
T-10670

31. DELINEATION

The Kelsh Plotter was used for delineation.

32. CONTROL

Horizontal control was inadequate. A Kelsh model bridge was set to establish additional control so that individual models could be set.

33. SUPPLEMENTAL DATA

Final names standard Yeocomico, Va.-Md., dated 6/19/59.

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.
Drainage is complete.

35. SHORELINE AND ALONGSHORE DETAILS

All shoreline compiled from adequate field inspection.

No low water or shoal lines were shown.

36. OFFSHORE DETAILS

No unusual problems encountered in compiling offshore details.

37. LANDMARKS AND AIDS

No landmarks or aids were submitted.

38. CONTROL FOR FUTURE SURVEYS

The following two topographic stations were established:

CHIMNEY, 1958

ROUND BUILDING, 1958

An incomplete copy of the survey was furnished along with a set of ratio photographs showing shoreline passpoints for use of the hydrographic party.

39. JUNCTIONS

The following junctions have been made:

- To the north with survey No. T-10664.
- To the south with survey No. T-10759.
- To the west with survey No. T-10669.
- To the east with survey No. T-10671.

40. HORIZONTAL AND VERTICAL ACCURACY

Covered in Photogrammetric Plot Report.

41. BOUNDARIES

The Maryland-Virginia Boundary Line has been omitted. Refer to amendment to Project Instructions, 15 May 1959.

42. through 45 - Inapplicable.

46. COMPARISON WITH EXISTING MAPS

AMS, Yeocomico, Va.-Md. sheet 5660 II SE, scale 1:25,000, 3rd edition dated 1949. This map was based on Bureau survey T-8146 (1943), scale 1:20,000.

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 557, scale 1:40,000, 6th edition, 8/10/46, corrected to 7/2/60.

Chart No. 558, scale 1:40,000, 4th edition, 11/16/59.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
29 July 1960

Edward L. Rolle

Edward L. Rolle
Carto. (Photo.)

Approved and forwarded

William E. Randall
William E. Randall
CDR, C&GS
Baltimore District Officer

PHOTOGRAMMETRIC OFFICE REVIEW

T. 10670

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

CONTROL STATIONS

4a. Classification label JCH

5. Horizontal control stations of third-order or higher accuracy JCH 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) JCH 7. Photo hydro stations JCH 8. Bench marks —
9. Plotting of sextant fixes — 10. Photogrammetric plot report JCH 11. Detail points JCH

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads JCH 28. Buildings JCH 29. Railroads — 30. Other cultural features JCH

BOUNDARIES

31. Boundary lines JCH 32. Public land lines —

MISCELLANEOUS

33. Geographic names JCH 34. Junctions JCH 35. Legibility of the manuscript JCH 36. Discrepancy overlay JCH 37. Descriptive Report JCH 38. Field inspection photographs JCH 39. Forms JCH
40. John C. Richter Henry J. Eichel
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 Names:

Bonum Creek

Carys Corner
Cherry Grove Creek
Coles Neck

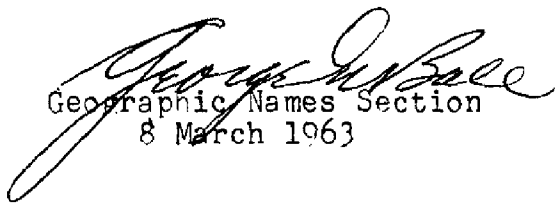
Gardner Creek

Jackson Creek

Potomac River

Sandy Point Neck

Tucker Hill


Geographic Names Section
8 March 1963

REVIEW REPORT
OF PLANIMETRIC MAPS
T-10670, T-10671, T-10674, T-10675 and T-10759

March 1963

61. General Statement

These are five (5) planimetric maps of Project PH-161 Lower Potomac River. These maps were prepared to furnish shoreline and control for hydrographic surveys and base maps for nautical charting.

62. Comparison with Registered Topographic Surveys

T-8146	1:20,000	1943
T-8357	1:20,000	1944

Cultural and shoreline changes have been continuous. These map manuscripts are to supersede the above listed surveys for common area for nautical charting.

63. Comparison with Maps of Other Agencies

Lottsburg, Va.	1:24,000	U.S.G.S.	1944
Yeocomico, Va.	1:24,000	U.S.G.S.	1943

There are small cultural and shoreline differences but in general, the agreement is good.

64. Comparison with Contemporary Hydrographic Surveys

H-8549	1:10,000	1960
H-8550	1:10,000	1960

Shoreline and control for the hydrographic surveys was furnished prior to hydrography and there is good agreement except Lynch Point (T-10674) has moved offshore approximately 100 meters.

65. Comparison with Nautical Charts

557	1:40,000	Oct. 1962
558	1:40,000	Nov. 1962

There are no differences of importance between the charts and the subject manuscripts.

66. Adequacy of Results and Future Surveys

These surveys are considered to be sub-standard due to the lack of desired horizontal control. See "Photogrammetric Plot Report page 7 of Descriptive Report for T-10670. However, it is believed, they are of sufficient accuracy for nautical charting at scales of 1:20,000 or smaller.

Submitted by:

L. C. Lande
L. C. Lande

Approved by:

Charles L. Gurnea
Chief, Cartographic Br.

Samuel H. Taylor
Chief, Nautical Chart Div.

J. E. Waugh 5/22/63 Horace D. Connelly
Chief, Photogrammetry Div. Chief, Operations Division

