

11209

Diag. Cht. No. 78-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-101(52) Office No. T-11209

LOCALITY

State Virginia

General locality Piankatank River

Locality Piankatank River (Upper)

1945

CHIEF OF PARTY

L.C. Lande, Graphic Compilation

LIBRARY & ARCHIVES

DATE May 23, 1958

B-1870-1 (1)

11209

Applied to Inset cht. 534 J.T. Phillipe 5-1-61

DATA RECORD

T- 11209

Project No. (II): Ph-101 (52)

Quadrangle Name (IV): Upper Piankatank River

Field Office (II):

Chief of Party:

Photogrammetric Office (III): Washington

Officer-in-Charge: L.C. Lande

Instructions dated (II) (III):

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III):

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 10 Feb 1958

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927

Vertical Datum (III): MHW

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): STAMPERS 1942

Lat.: $37^{\circ} 32' 14''.679(452,5)$ Long.: $76^{\circ} 25' 35''.677(875,9)$ 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.

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

Inapplicable

DATA RECORD

Field Inspection by (II): *None*

Date:

Planetable contouring by (II): *Inapplicable*

Date:

Completion Surveys by (II):

Date:

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

Interpreted in office on photographs taken May 1953

Projection and Grids ruled by (IV):

Date: *12 Aug 1953*

Projection and Grids checked by (IV): *Howard Wolfe*

Date: *Aug 1953*

Control plotted by (III): *Wm. Randall*

Date: *Aug 1953*

Control checked by (III): *S. J. Hathorn*

Date: *Aug 1953*

Radial Plot or Stereoscopic

Date: *Aug 1953*

Control extension by (III): *S. J. Hathorn*

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): *J. P. Battley*

Date: *Aug 1953*

Photogrammetric Office Review by (III):

Date:

Elevations on Manuscript

Date:

checked by (II) (III): *Inapplicable*

Camera (kind or source) (III): *USC & GS, Nine-lens*

Number	Date	Time	Scale	Stage of Tide
40302	29 May 53	8:49	1:10,000	18 ft above MLW
40303	"	8:49	"	"
40304	"	8:50	"	"
40305	"	8:51	"	"

Tide (III)

Reference Station: *Hampton Roads*
Subordinate Station: *Horse Point, Piankatank River*
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	2.5	3.0
0.6	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):

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

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Recovered:

Identified:

Number of BMs searched for (II):

Recovered:

Identified:

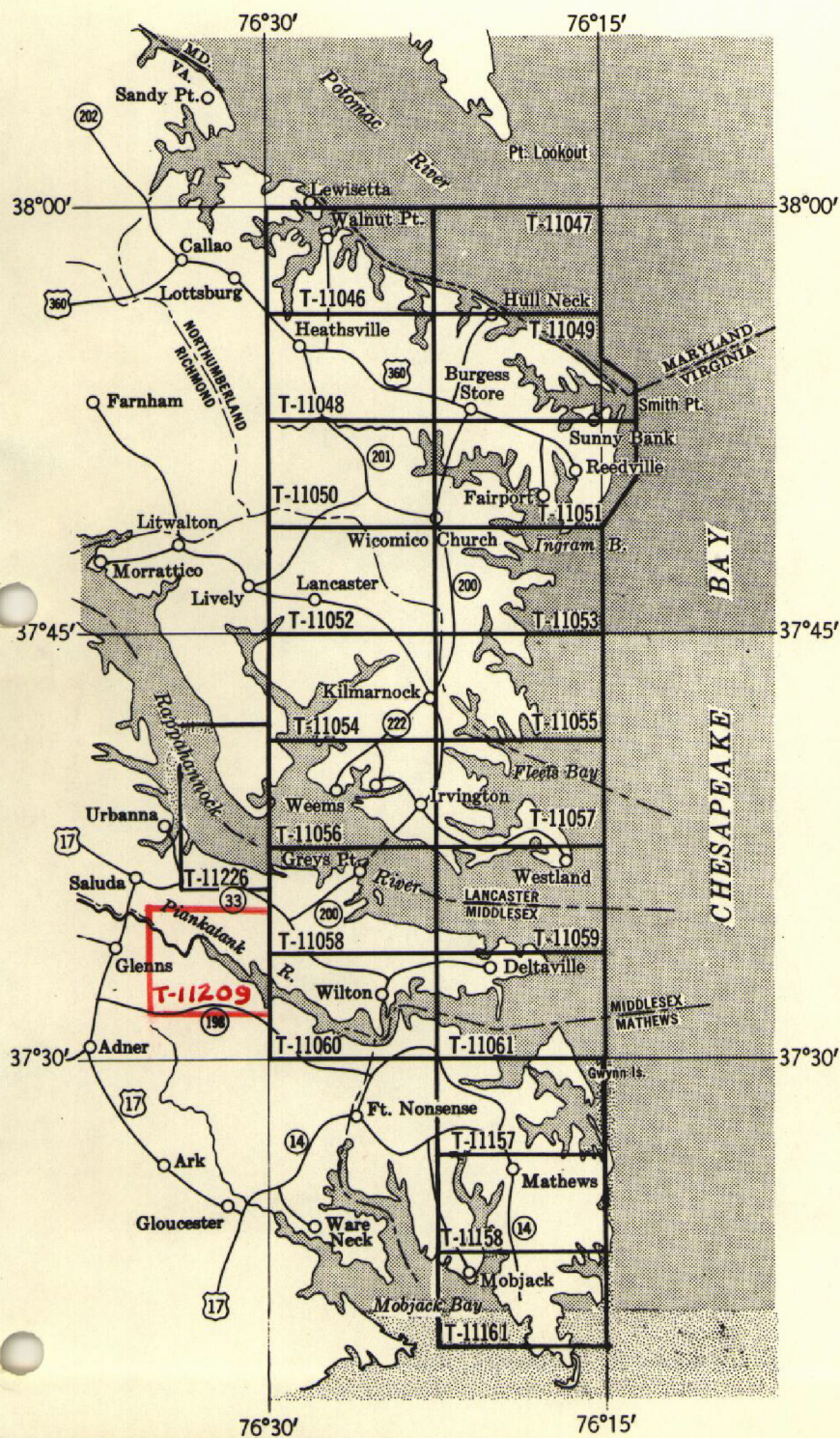
Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

SHORELINE MAPPING PROJECT PH-101

VIRGINIA - CHESAPEAKE BAY, Potomac River to Piankatank River



OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Sq. Miles Area	Lin. Miles Shoreline
T-11046	11	40
T-11047	2	5
T-11048	2	4
T-11049	12	20
T-11050	4	11
T-11051	18	43
T-11052	1	3
T-11053	7	20
T-11054	7	28
T-11055	8	35
T-11056	8	34
T-11057	7	35
T-11058	8	22
T-11059	4	18
T-11060	9	28
T-11061	5	21
T-11157	20	35
T-11158	25	15
T-11161	10	25
T-11226	11	21
TOTALS	179	463

Compiled at 1:10,000 scale from nine-lens photographs (1:20,000 scale) and single-lens photographs (1:24,000 scale) taken October 1952, (Refer to Air-Photo Index 134-B)

Chief, Graphic Compilation Section

12 November 1952

Chief, Division of Photogrammetry

(Sheet Nos. changed as follows:

3/30/53 (RS 434 to 11161

(RS 432 to 11158

Project Ph-101, Chesapeake Bay, Virginia (RS 430 to 11157

1. Project Ph-101 consists of sixteen 1:10,000 scale shoreline surveys (T-11046 to T-11061, inclusive) covering the western shore of Chesapeake Bay and adjacent inland waters from the Potomac River to the Paukatank River.
2. Compilation will consist of shoreline delineation and location of hydrographic signals and delineation of major road changes that have occurred since publication of the War Mapping quadrangles of this area. Only the actual shoreline shall be delineated, no details are required inshore of the mean high water line, except road changes which can be determined by visual comparison of the photographs with the original maps.
3. The purpose of this compilation is to provide shoreline and a means of control for hydrographic surveys. The office photographs and original compiled manuscript maps will be forwarded to the hydrographic parties for use in locating signals by field plotting. During office compilation, conspicuous, positively identifiable natural objects that will obviously be useful as hydrographic signals shall be identified on the photographs and located by radial plot. This shall be done without field inspection.
4. Field inspection shall be held to the minimum required for the above-stated compilation. Some of the horizontal control stations were recovered prior to photography and marked with ground targets intended to be visible on the photographs. Please inspect the photographs and the accompanying project layout and determine if any additional control must be recovered and/or established, and identified. Minimum shoreline inspection by sampling can be accomplished at the same time.
5. After the control requirements have been determined, please consult with me concerning the field work. Personnel may be detailed from the Baltimore Office, but it is preferred to accomplish the work with Washington Office personnel if practicable.
6. The following data will be provided:
 - a. Projections on acetate.
 - b. Office photographs (single and nine lens, October 1952).
 - c. G.P.'s and descriptions of control.
 - d. Project diagram (photo and control index, sheet layout, etc.)
 - e. Prints of War Mapping quads (for comparison).
 - f. Field identification data re: recovered horizontal control.

O. S. Reading, Chief, Div. Photogrammetry

PHOTOGRAMMETRIC PLOT REPORT
for
Shoreline Sheet T-11209

Refer to Photogrammetric Plot Report for Shoreline Sheets T-11060, T-11058, T-11056, T-11054, T-11052 and T-11226.

21. Area Covered.-

This plot extends from Longitude $76^{\circ}25'30''$ west up the Piankatank River to Longitude $76^{\circ}35'$. This plot was necessary to provide graphic control for the compilation of shoreline and location of hydrographic signals to the river's upstream navigable limits. The original photography for Ph-101 did not furnish coverage of the river west of T-11060 and the original compilation instructions called for compilation only to the western limits of Chart 534.

22. Methods.-

Four nine lens photographs of a flight along the river, taken in May 1953 were prepared and vinylite templets made using 1953 Master Correction Templet No. 40261.

Manuscript T-11209, scale 1:10,000, ruled with polyconic projections at 30-second intervals, was joined with manuscript T-11060. The easternmost photograph was positioned by a moderately strong 4-point fix (Stampers, 1942; Washington-Norfolk Airway Beacon No. 4, 1942; Piankatank 17 (JFC), 1932; and Piankatank 19 (UFC), 1932) of control on T-11060. The second photograph was positioned by a somewhat weaker position (or the three latter stations). The westernmost photograph was fixed by three map detail points (road intersections) transferred from T-8340, 1:20,000 War Mapping compilation. A few pass points within the limits of T-11060 were used.

A satisfactory plot was accomplished within the prescribed accuracy requirements.

Since this sheet was urgently needed for hydrography, no single lens templets were relaid where this plot junctioned with T-11060.

23. Adequacy of Control.-

Horizontal control identification furnished for T-11060 was used. The four triangulation stations were held within 0.2 mm., and the map detail points were held within 0.5 mm.

24. Inapplicable

25. Photography.- (May 1953)

Nine lens positype paper prints were furnished. No excessive tilts were noticed but photographic tones were of very poor contrast and considerable difficulty was experienced in the delineation of shoreline and

in the selection of hydrographic signals.

Submitted by:

Stanley J. Hathorn

Stanley J. Hathorn
Cartographer (Photo)
26 August 1953

APPROVED BY:

L. C. Lande

L. C. Lande, Chief
Graphic Compilation Branch
Division of Photogrammetry

COMPILATION REPORT
for
Shoreline Sheet T-11209

31. Delineation.--

Features were delineated in accordance with office memorandum, dated 12 November 1952, 73-mkl, except that road changes were omitted. Compilation was accomplished without benefit of field inspection and is subject to errors in office interpretation. Nine lens photographs taken in October 1952 were used.

32. Control.-- (See Photogrammetric Plot Report)

33 and 34. Inapplicable.

35. Shoreline and Alongshore Details.-- No comment

36. Inapplicable.

37. Aids to Navigation.-- None

38. Control for Future Surveys.--

Identifiable alongshore details were positioned during compilation for use by the hydrographic party. They are listed under paragraph 49 by photograph.

40. Horizontal Accuracy.-- (See the Photogrammetric Plot Report.)

41 to 45. Inapplicable

46. Comparison with Registered Topographic Surveys.--

T-8340	1:20,000	1949
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Except for minor differences in shoreline this sheet is in close agreement with the prior survey.

47. Comparison with Nautical Charts.--

Not covered by current nautical chart.

Submitted:

Stanley J. Hathorn
Stanley J. Hathorn
Cartographer (Photo)
26 August 1953

APPROVED:

L. C. Lande
L. C. Lande, Chief
Graphic Compilation Branch
Division of Photogrammetry

HYDROGRAPHIC SIGNALS
Project Ph-101
Shoreline Sheet T-11209

Office Photograph 40303

- 101 - white spot
- 102 - white spot south of dark tip
- 103 - west tip of white spot
- 104 - pt. of marsh in bend of creek
- 105 - center of white spot.
- 106 - marsh point
- 107 - small marsh point
- 108 - marsh point
- 109 - marsh point
- 110 - bush
- 111 - marsh point
- 112 - small marsh point

Office Photograph 40302

- 113 - tip of marsh (west tip)
- 114 - end of structure (pier)
- 115 - end of marsh tangent
- 116 - end of structure (pier)
- 117 - NW tip of pt
- 118 - Ma pt
- 119 - Ma pt
- 120 - tip of small marsh point
- 121 - bush
- 122 - marsh point
- 123 - marsh point
- 124 - bush
- 125 - marsh point
- 126 - SE corner of pier
- 127 - bush
- 128 - marsh point
- 129 - bush
- 130 - bush
- 131 - bush
- 132 - bush
- 133 - bush
- 134 - bush
- 135 - bush

GEOGRAPHIC NAMES
T-11209

Anderson Point

Carvers Creek

Harper Creek

Freeport

A.J.W.
4/6/55

Meggs Bay

My Ladys Swamp

L.H.
3/5/57

Cartographic Branch

Re: Chart, Operations Branch
4 March 1957

Chief, Photogrammetry Division

Photogrammetry

Review of Shoreline maps, Project 27130 (Va. & Md.,
Mobjack Bay to Potomac River)

It is my understanding that the project instructions call for the compilation of any new roads or road realignments in the project area, but that compilation has actually been limited to shoreline and signals for hydrographic support and has not covered any interior details.

In view of the press of work now on hand, I do not think that we should compile additional information on these maps. If such is needed for a chart revision, Mr. Brooks' Unit can take care of it as a chart correction job.

In reviewing the project, please be concerned only with the shoreline and information for hydrography and ignore the omission of interior details.

L. W. Swanson, Chief,
Photogrammetry Division

REVIEW REPORT T-11209
Shoreline Survey
5 March 1957

62. Comparison with Registered Topographic Surveys

T-1100	1:20,000	1869
T-2870	"	1907-08
T-8340	"	1942-46

The manuscript delineates shoreline only and was prepared to establish signals for hydrography. Inshore revision of nautical charts is not possible.

63. Comparison with maps of Other Agencies

USGS Saluda, Virginia quadrangle 1:24,000 1946

The base for this quadrangle was T-8341.

64. Comparison with Contemporary Hydrographic Surveys

8081 November 1953

The shoreline, as compiled, was accepted without change by the hydrographer.

65. Comparison with Nautical Charts.

Chart # 1223	1:80,000	5th edition 8/22/55	revised 8/21/56
Chart # 534	1:40,000	3rd edition 7/2/51	revised 10/1/55

66. Map Accuracy

The map manuscript conforms with the National Standards of Map Accuracy and the project instructions as amended.

Reviewed by:

Hammond Rau
Hammond Rau

Approved by:

L. C. Lande
Chief, Review Section

Max B. Little
Chief, Nautical Chart Branch
Division of Charts

B. Bull
Chief, Photogrammetry
B. Bull
Chief, Division of
Coastal Surveys