

8152

25100

Form 504
Rev. June 1941
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Air Photographic
~~Plane Table~~
~~Hydrographic~~

Survey No. T-8152
(Field)

MARYLAND KINGSTON QUADRANGLE

N 3800 - W 7537.5/7.5

LOCALITY

State Maryland

General locality Chesapeake Bay

Locality Kingston, Princess Anne

1942

CHIEF OF PARTY

F. L. Gallen

Fred. L. Peacock

U. S. GOVERNMENT PRINTING OFFICE 315531

February 20, 1945

DATA RECORD

T- 8152

Quadrangle (II): Kingston

Project No. (II): CS-278-B

Field Office: Salisbury

Chief of Party: F. L. Gallen

Compilation Office: Baltimore

Chief of Party: Fred. L. Peacock

Instructions dated (II III):
Mar. 4, Mar. 27, Aug. 13, 1942.Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office: 10/28/42

Reported to Nautical Chart Section: 10/42

Reviewed: 1/14/43

Applied to chart No.

Date:

Redrafting Completed: 5/27/43

Registered: 2/16/45

Published: 10/28/43

Compilation Scale: 1:20,000 $\times 0.782$ = Published Scale: 1:31,680
1:19,640

Scale Factor (III): 1.912

Geographic Datum (III): N.A.1927 Datum Plane (III): Mean sea level

Reference Station (III): SMULLEN 1942

Lat.: $38^{\circ} 06' 06.325 (195.0m)$ ~~06.321 (194.9 m)~~ Long.: $75^{\circ} 40' 14.856 (362.0)$ ~~14.844 (194.9 m)~~ Adjusted x
Unadjusted

State Plane Coordinates (VI):

Maryland
X = $X = 1,182,510.71$ feet Y = $100,538.92$ feet
Virginia, South zone
 $x = 2,814,067.04$ feet Y = $656,111.1$ feet

Military Grid Zone (VI)

"A"

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
8670-8672	4/14/42	11:06-11:08	1:20,000	2.2' above MWL
8675-8678	"	11:11-11:15	"	"
8-26	"	Unknown	"	unknown
8-26	"	"	"	"
9-87	"	"	"	"
10-95	"	"	"	"

Tide from (III): Shelltown, Maryland

Mean Range: 2.4 Spring Range: 2.9

Camera: (Kind or source) U.S.C. & G. S. (9 lens focal length 8.5"
U.S. Geological Survey single lens

Field Inspection by: George Varnadoe date: June 1942

Field Edit by: John R. Evans date: Nov. 1942

Date of Mean High-Water Line Location (III): April 4, 1942.

Projection and Grids ruled by (III) Washington date: June 3, 1942

" " " checked by: Washington date: June 3, 1942.

Control plotted by: William Van Loon date: June 9, 1942.

Control checked by: J. Edward Deal, Jr. date: June 13, 1942.

Radial Plot by: J. E. Deal & Joseph Steinberg date: June 23, 1942.

Detailed by: J. A. Merriam date: July 8- Aug.
25, 1942.

Reviewed in compilation office by: date:

Elevations on Field Edit Sheet
checked by: D. Barnes, K. Roche date: Nov. 9, 1942.

STATISTICS (III)

Land Area (Sq. Statute Miles): 58.44 Sq. miles

Shoreline (More than 200 meters to opposite shore): None

Shoreline (Less than 200 meters to opposite shore): 19 statute miles

Number of Recoverable Topographic Stations established: none

Number of Temporary Hydrographic Stations located by radial plot: nine

Leveling (to control contours) - miles: 54 statute miles

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

DESCRIPTIVE REPORT
TO ACCOMPANY
AIR PHOTOGRAPHIC SURVEY NO. T-8152
STATE OF MARYLAND
CHESAPEAKE BAY

Date of this Report

August 25, 1942

INSTRUCTIONS:

This rough draft manuscript is part of War Mapping Project CS-278B, instructions for which are contained in the Director's letter dated March 4, 1942. This 7½ minute manuscript falls within sub-project CS-278B, Maryland. It is known as Kingston Quadrangle, and is part of the 15 minute Princess Anne Quadrangle.

Supplemental instructions are contained in inter-office correspondence of March 27, June 5, and June 24, 1942.

FIELD INSPECTION:

The field inspection of the area included by this manuscript was done by War Mapping Field Party No. 1 under the direction of Lieut. Comdr. Wm. D. Patterson in 1942.

CONTROL:

There are four U. S. Coast & Geodetic Survey stations on this survey. They are as follows:

Green Hill	
Green Hill Lookout Tower	1942
Smullen	1942
Colbourne	1942
Bell	1942

RADIAL PLOT:

A combined radial plot involving surveys nos. T-8131, T-8132, T-8133, T-8151, T-8152, T-8153 was run on June 9, 1942 by the usual celluloid template method. Surveys T-8133 and T-8151, which lie to the west of 75° 45' meridian and are included in Project CS-278C now being carried on by the Tampa Field Office, were laid with this plot to establish common control. The number of control stations permitted good intersections at the secondary control points, and the resulting plot was very accurate. The control points pricked on the 1:20,000 scale photographs were used in cutting in additional detail points.

Because single lens photograph 9-91 was in use at the Tampa Field Office and not available, single lens photograph 10-95 was used in the lower southwest corner, in order to get a third cut on points in that area, although its center did not fall on the manuscript. Some slightly indeterminate points, marked with green circles, resulted but they were in good agreement with the points located by three or four cuts. The green-circled points in the northwest section were a result of the parallelism of the radial lines from points in that area. These too agreed well with points determined by three or four cuts.

HYDROGRAPHIC SIGNALS:

Nine suitable points have been pricked by the compiler on the photographs and radially plotted on the map manuscript for use as hydrographic signal sites. The descriptions of the points appear on the discrepancy overlay.

RECOVERABLE TOPOGRAPHIC STATIONS:

Form No. 524 is not submitted for these stations. Descriptions appear on the discrepancy overlay.
6 form 524 cards were submitted. These are for bench marks and azimuth marks, and are marked (d) on the file copy.
J.N.D.

DETAIL:

A scale plot was run for this area and it greatly aided the detailing since the scale of the projection as determined by the plot and the scale of the photographs were almost identical.

Buildings: According to instructions, "In rural areas all dwellings, industrial buildings and large farm buildings will be individually shown on the smooth manuscript. Small out-buildings and temporary buildings such as garages, sheds, shacks, and small barns will be omitted."

This procedure has been followed as closely as possible. However, since the field inspection of the area covered by this manuscript is very incomplete, it was impossible to accurately determine the character of all buildings from the photographs alone. In all cases where there was any doubt as to the character of a building, it was detailed on the manuscript, and it is recommended that any superfluous buildings be deleted during the field edit.

Roads: All roads are shown by drawing the center line of the road. In cases where road intersections are complicated or unusual, they are detailed to scale with double lines. Roads are classified according to field inspection; which followed military specifications, Plate 42-2194, Engineer Production Plant, the Army War College, dated January 12, 1942.

Wooded & Cultivated or Cleared Areas: The demarcation between wooded and cultivated or cleared areas is shown by a long broken line. Cleared areas within wooded areas are lettered (CL). Woods were classified according to field inspection. Unclassified wooded areas are shown with the letter (T). To avoid a confusion of lines in some instances, it was considered expedient to show comparatively small wooded areas by symbol rather than by outlining the area.

Drainage: Drainage was detailed according to field inspection (except where stereoscopic examination indicated otherwise). Perennial drainage is shown by a full line. Intermittent drainage is indicated by a line composed of alternate dashes and three dots. If field inspection was available where drainage was interpreted stereoscopically in the office, the alternate dot-dash-dot line was used.

COMPARISON WITH PREVIOUS SURVEYS:

There are no previous surveys available for comparison

FIELD EDIT REPORT
T-8152
Project CS-278-B
F. L. Gallen, Chief of Party

18. Geographic names were taken from a special report CS-278-B submitted by A. J. Wraight, Photogrammetric Aid.
46. All additions, deletions, and corrections were made on the map manuscript and transferred to the smooth copy after completion of the field work.

The inking of the map manuscript was done in accordance with the following scheme:

<u>Features</u>	<u>Colors</u>
Additions, bench marks, wye level elevations, crosses	Black
Deletions	Green
Drainage features	Blue

47. The position and amount of detail on this manuscript is complete and accurate except in the vicinity of the railroad on the west edge on the quadrangle. A movement of a section of the railroad was necessary to effect a junction with the results of the Tampa compilation.
48. A horizontal accuracy traverse was run in quadrangles ^{T-8153}~~T-8159~~ and ~~T-8167~~.

There is such a small amount of contouring on this manuscript that a vertical accuracy test was considered unnecessary.

Submitted by

John R. Evans
John R. Evans,
Junior Topographic Engineer

Approved by

E. H. Kirsch Jr
F. L. Gallen
Chief of Party.

GEOGRAPHIC NAMES LIST FOR T-8152

- ✓ Annemessex Creek
- ✓ Big Annemessex River
- ✓ Cottage Grove
- ✓ Cypress Swamp
- ✓ East Creek
- ✓ Greenhill
- ✓ Greenhill Forest Fire Lookout Tower
- ✓ Hudson Corner
- ✓ Kingston
- ✓ Manokin
- ✓ Marumsc
- ✓ Marumsc Creek
- ✓ Moores Chapel
- ✓ ~~N.Y. Phila. & Norfolk R. R. (Crisfield Branch)~~ Penn? **yes**
- ✓ Pauls Corner
- ✓ Pocomoke River
- ✓ Rehobeth
- ✓ Rehobeth Branch
- ✓ Rehobeth Pond
- ✓ Somerset County
- ✓ Westover
- ✓ Worcester County

T-8152

Remarks.

Decisions

1		380756
2		"
3		379756-57
4	<i>dried up - H&A</i>	380756
5		"
6		380757
7		379756-57
8		380757
9		"
10	<i>Sattlamant - (Hack)</i>	"
11		"
12	<i>Not to be Labeled on this QUAD Label on T-8151 (Elkins)</i>	"
13	<i>Not on this QUAD - (Elkins)</i>	379756-57
14		380758
15	<i>Name to appear on this Quad and T-8132 (Elkins)</i>	381757
16	<i>Not to be Labeled on this Quad. Label on T8151 (Elkins)</i>	"
17		381756
18		"
19	<i>show as control not Geographic Nemo (Elkins) (Tower)</i>	"
20		380756
21		Railway Guide
22		Railway Guide
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No.

T-8152

KINGSTON quadrangle

No. 1

Name on Survey

	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
✓ <u>Marumsco</u>										1
✓ <u>Rehobeth</u>										2
✓ <u>Pocomoke River</u>										3
✓ <u>Rehobeth Branch</u>										4
✓ <u>Rehobeth Pond</u> ?										5
✓ <u>Kingston</u>										6
✓ <u>Marumsco Creek</u>										7
✓ <u>Annemessex Creek</u>										8
✓ <u>Hudson Corner</u>										9
✓ <u>Moores Chapel</u> ← settlement										10
✓ <u>Pauls Corner</u>										11
✓ <u>Holland Creek</u>										12
✓ <u>East Creek</u>										13
✓ <u>Big Annemessex River</u>										14
✓ <u>Westover</u>										15
✓ <u>Manokin</u>										16
✓ <u>Greenhill</u>										17
✓ <u>Cottage Grove</u>										18
✓ <u>Greenhill Forest Fire Lookout Tower</u> (TOWER)										19
✓ <u>Cypress Swamp</u>										20
✓ <u>Pennsylvania</u> (RR)										21
✓ <u>Pennsylvania (Crisfield Branch)</u> (RR)										22
✓										23
<u>P.D. NO. 1 COSTENS</u>										24
" ✓ <u>NO. 3 BRINKLEYS</u>										25
" ✓ <u>NO. 4 DUBLIN</u>										26
" ✓ <u>NO. 13 WESTOVER</u>										27

Names underlined in red approved

by L. Heck on 12/1/42

DATA RECORD T-8152PHOTOGRAPHS

NUMBERS	DATE	TIME	SCALE	ALTITUDE	STAGE OF TIDE*
8670-8672, Inc.	4/14/42	11:06-11:08	1:20,000	Unknown	2.2' above M.L.W
8675-8678, Inc.	4/14/42	11:11-11:15	1:20,000	Unknown	2.3' above M.L.W
8-26	Unknown	Unknown	1:20,000	Unknown	Unknown
8-28	Unknown	Unknown	1:20,000	Unknown	Unknown
9-87	Unknown	Unknown	1:20,000	Unknown	Unknown
10-95	Unknown	Unknown	1:20,000	Unknown	Unknown

*Tide from predicted tide tables for Hampton Roads, Va. corrected for Shelltown, Md.

Camera: U.S. Coast & Geodetic Survey nine lens camera (focal length - $8\frac{1}{4}$ "). U.S. Geological Survey Single lens (focal length unknown)

GENERAL INFORMATION

Chief of Party.....Comdr. Fred.L.Peacock
 Projection by.....Washington Office.....June 3, 1942
 Projection Checked by.....Washington Office.....June 3, 1942
 Scale Plot by.....Jack L. Rihn.....May, 1942
 Control Plotted by.....William H. VanLoon.....June 9, 1942
 Control Checked by.....J. Edward Deal, Jr.....June 13, 1942
 Field inspection, elevations and contours by War Mapping Field Party No.1
 under the direction of Lieut. Comdr. William D. Patterson, Spring, 1942.
 Radial Plot by.....J. E. Deal, Jr. & J. Steinberg.....June 23, 1942
 Radial Points Pricked by..William H. VanLoon.....July, 1942
 Additional Radial Points Pricked by...J. Steinberg.....July, 1942
 Shoreline Inked by.....J. A. Merriam.....July 8, 1942 to Aug.25,
1942
 Hydrographic Signals Pricked by...C. C. Tropp.....Oct. 21, 1942
 Detail Inked by.....J. A. Merriam.....July 8, 1942 to Aug.25, 1942
 Scale.....1:20,000 x 0.982 = 1:19,640
 Time Required for Detailing.....40 Days
 Area.....58.44Sq. Statute Miles
 Shoreline (more than 200 meters from opposite shore).....None
 Shoreline (less than 200 meters from opposite shore).....19 Statute Miles

REFERENCE STATION

Smullen, 1942

Datum North American 1927 (adj.)

06.325" (195.0m)

Latitude 38° 06' 06.321" 194.9m

Longitude 75° 40' 14.844" 361.7m

14.856" (362.0m)

RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

Registered and Filed in the Vault

Cloth-mounted copy of the published quadrangle.

Black and white cloth-mounted copy of the published quadrangle at 1:20,000 scale. ~~manuscript~~. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For political boundaries, woodland, ~~marsh, and swamp limits~~, refer to the published quadrangle for the finally adopted positions.

Descriptive Report.

Filed in the Photogrammetric Section - Surveys Branch

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Reviewing Unit.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Original celluloid manuscript.

Copies of specifications and all instructions
to field parties and field offices.

Filed in Reproduction Branch

Glass negatives of the color separation drawings.

Filed in the Library

Special report on field work by Commander K. T.
Adams, 1944.

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L.
Gallen, 1944.

Season's report on field work by Commander R. L.
Schoppe, 1944. - -----

Delivered to the Army Map Service in accordance
with the contract

Film negatives and film positives of the color
separation drawings.

All color separation drawings.

~~Original celluloid manuscript.~~

A correction sheet consisting of a copy of the
first edition of the quadrangle with notes in red
indicating changes desirable at the next printing.

General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.9278-B, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000.

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs.

Contouring by planetable directly on the photographs. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, drive-ways, and numerous other points identifiable on the photographs.

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templets) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the Baltimore ~~Tampa~~ Photogrammetric Office.

FIELD EDIT

Comparison of a copy of the manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blue-line" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8152

KINGSTON QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy Refer to the Descriptive Report for quadrangle T-8153 for a copy of the results of the nearest horizontal accuracy test. The results of this test were very satisfactory. No vertical accuracy test was required on this quadrangle as nearly all of the land area is less than 20 feet above mean sea-level.

Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

T-2550	1:20,000	1901
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*"Princess Anne"	1:62,500	1901 U.S.G.S.
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*T-8152 is satisfactory to supersede this published quadrangle over the common area except for the contouring which is shown at intervals of 10 ft.

Comparison with Nautical Charts No. 1224

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

Only minor differences in shoreline were noted in comparing the chart with this quadrangle.

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

Only minor changes were necessary during the review of the map manuscript.

Reviewed 1/14/43 By H. H. Belling
under direction of D. H. Benson *per J. H. S.*

Inspected by B. G. Jones *B. G. Jones*

Examined and approved:

Charles Price
Chief, Surveys Branch

K. T. Adams
Chief, Topography Section

J. S. Bond
Chief, Div. of Charts

G. H. Hude
Chief, Div. of Coastal
Surveys