

5702

Diag'd. on Diag. Ch. No. 77-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Map

Field No. _____ Office No. T-5702

LOCALITY

State Maryland

General locality Chester River

Locality Corsica River

Photographs taken May 1 and July 8,
1937. Field inspection Aug. 1938

194

CHIEF OF PARTY

L. W. Swanson

LIBRARY & ARCHIVES

DATE _____

5702

Celluloid applied to Reconstruction of Chart 548 - Apr. 28, 1942 -
J.T.W.

Applied to chart 548 after review. 9/23/47 Pam.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

15702

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. T- 5702

REGISTER NO.

State Maryland

General Locality Chester River

Locality Corsica River and Chester River

Scale 1:10,000 ~~285~~ Date of ^{Photographs} ~~Survey~~ May and July, 1937

~~XXXXX~~ Air Photographic Party No. 2

Chief of party L. W. Swanson

Field Inspection D.A. Jones
~~Surveying~~ Radial Plot J.E. Deal & W.E. Schmidt.

Inked by B.P. Brown & J.C. Lajoie

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, ^{T.W.H. 18 500 ft} Form line interval _____ feet

Instructions dated May 13, 1938 and August 28, 1939, 19

Remarks: _____

GPO 264853

Rec 3/14/42.

DATA RECORD - T-5702

PHOTOGRAPHS

NUMBERS	DATE	TIME	SCALE	ALTITUDE	STAGE OF TIDE
1673 1675	7-8-37	10:44-11:08 A.M.	1:10,000	Unknown	0.27 above M.L.W.
1554-1557	5-2-37	9:07- 9:22 A.M.	1:10,000	Unknown	0.6 above M.L.W.
1694-1697	7-8-37	11:14-11:24 A.M.	1:10,000	Unknown	0.4 above M.L.W.
1370	5-1-37	9:50-10:01 A.M.	1:10,000	Unknown	1.2 above M. L. W.
1574	5-2-37	9:27- 9:32 A.M.	1:10,000	Unknown	0.6 above M.L.W.

* Tides from prediction tables for Queenstown Md.

Camera: U. S. Coast and Geodetic Survey nine lens camera
 Focal length 8-1/4 inches
 Negatives on file in Washington Office

SUPPLEMENTAL SURVEYS

None.

GENERAL INFORMATION

Chief of Party.....L. W. Swanson
 Projection (traced from original).....J. E. Deal & W. E. Schmidt..4-28-41
 Original Projection checked by.....Washington Office.....unknown
 Hydrographic radial points pricked by.....D. A. Jones
 Additional radial points pricked by.....J. E. Deal & W. E. Schmidt..4-28-41
 Control plotted by.....J. E. Deal & W. E. Schmidt..4-28-41
 Control checked by.....J. E. Deal & W. E. Schmidt..4-28-41
 Radial plot by.....J. E. Deal & W. E. Schmidt
 Additional Points by.....B. P. Brown & J. C. Lajoie 8-10-41
 Shoreline inked by.....B. P. Brown & J. C. Lajoie 9-3-41
 Detail inked by.....B. P. Brown & J. C. Lajoie 1-22-42
 Scale.....1:10,000 x .985

STATISTICS

Area (land).....33.1 square statute miles
 Shore line (more than 200 meters from opposite shore)2.4 statute miles
 Shore line (less than 200 meters from opposite shore 9.5 statute miles
 Roads, streets and trails.....70.2 statute miles
 Streams.....35.6 statute miles
 Railroads.....1.8 statute miles

REFERENCE STATION

Grant 1934

Datum North American 1927

Latitude 39° 03' 22.785" -702.621m *adj.*
 Longitude 76° 04' 47.600" - 1144.5m

X = 1,061,284.82

Y = 446,707.31

Maryland System of Plane Coordinates	
x coordinate:	1,061,284.82 FT.
y coordinate:	446,707.31 FT.

DESCRIPTIVE REPORT
TO ACCOMPANY
AIR PHOTOGRAPHIC SURVEY SHEET
NO.T-5702
STATE OF MARYLAND
CHESTER RIVER

Date of this report

January 29, 1942

INSTRUCTIONS:

This rough draft map drawing is a part of Project HT-215, the instructions for which are dated May 13, 1938, and supplemental instructions contained in the Director's letter dated August 28, 1939.

FIELD INSPECTION

Shore line and Hydrographic signals by D. A. Jones in August 1938.

Interior detail by D. A. Jones in August 1938.

Geographic names investigated by Lieut. (jg) Ross A. Gilmore during the fall of 1939.

CONTROL:

There are eleven control stations on or adjacent to this sheet, all of which are on the westerly part of the sheet with the exception of Hope 1896-1934, which lies in the southeast corner. In addition to the control stations, stations Ruth 1909 and Bath 1909 were used as a check.

BURNS 1909 *N. of sheet*

ASHLAND 1909 *N. of sheet*

WESTCOTTS WINDMILL 1909

CHESTER 1909

INDIAN 1909

SWEPSON 1909 *N. of sheet*

SHIP 1909

BLACK W. T. EASTERLY 1938 *W. of sheet*

GRANT 1934

HOPE 1896-~~1934~~ *S.E. of sheet*

CENTERVILLE STANDPIPE Weathervane ~~1934~~ ~~1896~~ *1934 S. of sheet*

RADIAL PLOT:

The plot for T-5702 has been run several times by the template method. Approximately 30% of the triangulation in the photographs has been disregarded and only Hope, Centerville Standpipe, Grant R. M. No. 1, Black Water Tank Easterly, Indian, and Field Inspection Station Apple,* referred to on the sheet as F.I.S. Apple were held. These stations, with the exception of Hope, which lies in the southeast corner, are all in the western section of the sheet.

The present plot is built around Photographs 1674, 1675 and 1555, which are located on the western side of T-5702 and the remainder of the sheet is controlled by radial extensions from these pictures tied into previously completed sheets; T-5700 and T-5699 on the north and T-5704 on the south. The pictures on the east side of T-5702 are not exceptionally strong either for control or detailing, due to incorrect matching of the chambers, tilt, and insufficient overlap on the photographs.

* F.I.S. Apple W. of sheet

In detailing the above area, it is found that the use of the reprints of 1696 and 1697 and by orienting in separate chambers, a good junction is made with T-5704 on the south.

JUNCTIONS:

The junction with sheet T-5699 is not exceptionally strong. The computation of tilt in photo 1695 and in photo 1574, and the orientation of their respective chambers, has greatly improved the junction of these two sheets. Detail along these two sheets has brought to agreement within an error of 0.5 mm.

On the west, T-5701 is in good agreement with this sheet.

On the south, T-5704 is in good agreement with this sheet.

There is no sheet to the east of T-5702.

On the north, the junction is in good agreement with T-5700.

For a report on T-5699, see radial plot report.

HYDROGRAPHIC SIGNALS:

There are sixteen hydrographic signals on this sheet marked by black circles 1.5 mm. in diameter. Several hydrographic signals shown on the field inspection sheet are not shown as their location could not be definitely picked on a sufficient number of photographs. Most of these are along Corsica River.

RECOVERABLE TOPOGRAPHIC STATIONS:

There are two recoverable topographic stations on this sheet. Form 524 for these stations is submitted. *White silo } Filed in Review Unit
Windmill }*

DETAILING:

Most of the detail was obtained by use of the projector, which was used to bring the Phot to scale.

Detail on T-5702 east of Longitude 76° 02' is believed correct although some buildings on the farms may have been omitted, due to lack of clarity and of sufficient photographs.

Roads were detailed according to field inspection photographs. However, notes on the pictures covering the eastern part of T-5702 are incomplete. All buildings except out buildings and buildings obscured by trees are shown.

COMPARISON WITH PREVIOUS SURVEYS:

	T-201	1:20000	1846	<i>A comparison was made with these surveys. See reviewer's report.</i>
	T-2288	1:20000	1897	
	T-2291	1:20000	1897-1905	
	T-3014	1:20000	1910	
T-2288 - 201 - 2291				

In general, these Topographic Surveys compare favorably with T-5702 along the shore line. There are several changes in the marshy areas. Practically all changes are due to recession except in the area East of Highway 213 at Centerville Landing, which has built up. There is quite a difference in the shore line of Wash Point, which has receded. Comparison with the inner detail on these surveys is very good, however no comparison could be made with the detail, except in the southwest corner of T-5702.

Chart 548

Comparison was made with Chart 548.

These same changes appear on this chart. The scale of Chart 548 prevents any accurate comparison but there seems to be a general recession of Jacobs Nose.

Chart 1226 (March 23, 1940)

The changes listed above also appear on this chart.

LANDMARKS:

None.

GEOGRAPHIC NAMES:

The geographic names on this sheet have been listed on Form M 234 and are attached to this report.

REMARKS:

Owing to the lack of photographs, it was impossible to detail East of Longitude $75^{\circ} 59'$. Stations Ruth 1909 and Bath 1909 were field inspected after the sheet had been detailed and were plotted as check stations. Station Ruth 1909 fell .3 mm. East and .1 mm north of the plotted position while the Field Inspection Station for Bath 1909, fell .2 mm. north and .1 mm. East of the plotted position, indicating that the detailing of the western portion of this map drawing is well within the allowable error.

RECOMMENDATIONS FOR FUTURE SURVEYS:

The error of radial points and of well defined objects along the shore line is not greater than 0.8 mm.

The East side of this sheet should have additional control, but it is felt to be sufficiently accurate for charting purposes and is probably within the allowable error.

Respectfully,

John C. Lajoie
Photogrammetric Aid (field)

Forwarded 3/12/42

The triangulation that was not held on the various photographs was felt to be poorly tied to the photos. This is a case where Field Inspection Station should have been feet in as the age of the photographs made it hard to identify points of mark etc.

L. W. Swanson
Chief of Party.

Survey No.

Name on Survey

On Chart A-528
No. 8-1226

On previous survey
No. 2288-B 2

On U. S. quadrangle
Maps

From local information

General Highway
On local M₂
Ann

Shway
al Maps
Hane Co. Md.
P. O. Guide
Pen

Side or Map

West of Queen An

ty

U. S. Light Liss

Exit List

[illegible]

Remarks

Decisions

1		390760
2	* spelled Spaniards Neck ✓	390761
3		"
4	(C) Emorys Cr. * Emory Cove ** Emorys Cove	" U.S.G.B.
5		"
6	* Spelled Adler Br.	390760
7		"
8		390760
9		390760
10	(B) Spelled Earle's	"
11	(B) Spelled Earle's	"
12		"
13		"
14	(B) Puseys Ldg. * Spelled Pusey's Ldg.	"
15		"
16		390761
17	(C) Corsica Wharf	"
18		390761
19	(C) Tilghman's Cove ✓	"
20		390761
21		391760
22	<i>Delaware R.R. (Centerville Branch)</i>	
23	* Delaware R.R. (Centerville Branch)	390761
24		390762
25		391760
26		390761
27		390761

Division of Photogrammetry

Review of Planimetric Map T-5702

The manuscript for T-5702 was completed in the Baltimore Office in 1942 but Washington Office processing was delayed because of the war mapping program.

T-5702 was used as a planimetric base for part of war mapping topographic quadrangle T-8274 (Centerville).

Radial Plot.-

The radial plot lacked sufficient control and was not up to usual standards. The accuracy of the manuscript was accepted at the time as providing location of well-defined points within about one millimeter of correct geographic position. This accuracy is also indicated by the horizontal accuracy ⁷⁴³⁴ and on quadrangle T-8274.

Map Detailing.-

The review of this manuscript was delayed until after completion of quadrangle T-8274 and included a comparison with that quadrangle.

A number of details have been added to the manuscript in red and include buildings, roads, a revision of most of the drainage, and some change in the woodland limits.

Comparison with Hydrographic Surveys.-

Minor changes in shoreline have been made to bring this manuscript into agreement with H-6600, 1940.

Comparison with Nautical Charts.-

T-5702 was applied to chart 548 in April 1942. Changes made on the manuscript during the review in 1944 were mostly in interior detail. However, minor shoreline changes were made as indicated in the preceding paragraph.

Reviewed by J. K. Wilson in December 1944 under the direction of D. H. Benson.

Review report prepared from reviewer's notes by B. G. Jones in January 1947.

APPROVED BY:

B. J. Jones 1/17/46 H. B. Smith
Technical Assistant to the Chief, Nautical Chart Branch
Chief, Div. of Photogrammetry Division of Charts

K. T. Adams E. K. Green
Chief, Div. of Photogrammetry Chief, Div. of Coastal Surveys