5720

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-5720

LOCALITY

State Maryland

General locality Chesapeake Bay

Locality Choptank River - Cambridge

Photographs taken 1957 and 1940. Field inspection 1939 & 1940.

~~194 F~~

CHIEF OF PARTY

L. W. Swanson

LIBRARY & ARCHIVES

DATE .....

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5720

Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

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-5720

REGISTER NO.

State MARYLAND

General locality Choptank River

Locality Cambridge Bar to Hurst Creek

Scale 1:10,000 Date of Photographs May 1,1937 ,July 8,1937 March 12, , 19 40

Remarks Air Photographic Survey Party No. 2

Chief of party Lieut. L.W.Swanson

Field Inspection— J.Jones, J.H.Jones, L.W.Swanson

Surveyed by Radial Plot— J.L.Hilm & E.Taylor
Revised Radial Plot— J.Steinberg

Inked by J.Steinberg

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated May 28 , 19 38

Remarks: ✓ Supplement Instructions in letter dated August 20,1939 from the Director.

DATA RECORD T-5720

PHOTOGRAPHS

Number	Date	Time	Scale	Alt.	Stage of Tide*
1338	May 1,1937	9:14-9:45a.m.	1:10,000		1.4 Ft. above M.L.W.
1650	July 8,1937	10:32-10:42a.m.	"		0.3 Ft. above M.L.W.
1651	"	"	"		0.3 Ft. above M.L.W.
1652	"	"	"		0.3 Ft. above M.L.W.
1653	"	"	"		0.3 Ft. above M.L.W.
1654	"	"	"		0.3 Ft. above M.L.W.
4775	March 12,1940	12:58-12:14p.m.	"		-0.2 Ft. below M.L.W.
4776	"	"	"		-0.2 Ft. below M.L.W.

*Tide from predicted tables for Baltimore, Md., with time correction to Cambridge, Md. Mean range 1.6 ft. spring range 1.9 ft.

Cameras: U.S. Coast & Geodetic Survey Nine Lens (Focal length 8½ inches). All negatives on file in Washington Office.

SUPPLEMENTAL SURVEYS

Graphic Control Sheets:.....None
Field Inspection.....D.A.Jones.....Fall of 1939
J.N.Jones.....Spring of 1940
L.W.Swanson.....Fall of 1940
Name Investigation.....J.N.Jones.....Spring of 1940

GENERAL INFORMATION

		Date
Chief of Party.....	L.W.Swanson	
Projection by.....	J.P.D. Washington Office	Unknown
Projection checked by.....	Washington Office	Unknown
Control plotted by.....	J.L.Rihn	January 24,1941
Control checked by.....	C.Supp	January 25,1941
Radial Plot by.....	J.L.Rihn & N.Kaslow	Jan.25-Feb.13,1941
Revised radial plot by.....	J.Steinberg	July 7-8,1941
Radial points pricked by.....	W.V.Loon	January, 1941
Additional radial points by...	J.Steinberg	July 7, 1941
Shore line inked by.....	J.Steinberg	3/21/41-4/23/41
Detail inked by.....	J.Steinberg	7/1/41-8/8/41
Scale.....	1:10,000 .....(no scale factor)	

STATISTICS

Area (land).....	25.0	Square Statute Miles
Shoreline (more than 200 m. from opposite shore)...	15.0	Statute miles
Shoreline (less than 200 m. from opposite shore)...	10.0	Statute miles
Roads,streets,trails and railroads.....	104.0	Statute miles
Time required for detailing.....	25	days

REFERENCE STATION

SLAGLE,1934

Latitude	38° 35' 29.641" (910.9 meters)	Datum: N.A. 1927 (adjusted)
Longitude	76° 05' 32.851" (795.0 meters)	

DESCRIPTIVE REPORT
TO ACCOMPANY
AIR PHOTOGRAPHIC SURVEY SHEET NO. T-5720
STATE OF MARYLAND
CHOPTANK RIVER
HAMBROOKS BAR - HURST CREEK

DATE OF THIS REPORT.....August 12,1941

INSTRUCTIONS:

This map drawing is a part of project HT-215, the instructions for which are dated May 13,1938. For authority to detail this sheet by the rough draft method, see the Director's letter of August 28,1938.

FIELD INSPECTION:

The field inspection for this sheet was made by Don A.Jones, in the fall of 1939, by Lieut J.N.Jones in the spring of 1940 and by Lieut. L.W. Swanson in the fall of 1940.

The geographic name investigation was done by Lieut. J.N.Jones during March of 1940.

PHOTOGRAPHS:

The photographs on this sheet were taken by the U.S.Army with the U.S. Coast & Geodetic Survey nine lens camera.

CONTROL:

The control used on this sheet consists of four U.S. Coast & Geodetic Survey and two Maryland Shell Fish Survey stations. These stations that are within the limits of the sheet proper are listed as follows:

U.S. Coast & Geodetic Survey

Cambridge, standpipe, 1934
Cambridge Mfg. Co., black W.T.how silver), 1934
Cambridge,Phillips Packing Co, silver tank, 1934

Maryland Shell Fish Survey

Double, 1909
Shoal, 1900, 1910

One U.S. Coast & Geodetic Survey station which does not fall within the limits of the sheet proper is Slagle, 1934. The reference mark No.1 for this station which was plotted and used is shown by a small blue square.

This sheet is also controlled by secondary control points obtained from a radial plot of 1:20,000 scale control sheet.

RADIAL PLOT:

For the first radial plot refer to the descriptive report of sheet No. T- 5718.

REVISED RADIAL PLOT:

A revised radial plot was made before detailing this sheet to secure additional secondary control points in the southeastern section of sheet T-5720 and also to tie it in with sheet T-5808.

A dog ear was first attached to the west side of T-5720, centers of photographs 1337, 1655, 1656 and the secondary radial control points were transferred from sheet T-5719.

Secondary control points were then transferred from sheet T-5808 on the east side of Sheet T-5720.

With these additional photographs and control points, new secondary radial control points were established by radial intersections directly on the smooth sheet. As some of the photographs lacked triangulation, to orient them, it was necessary to hold to the flight lines which were rechecked and to the secondary control points established in the previous radial plot of T-5719 and T-5720.

The center of the 20,000 photograph 4754 was pricked on the 10,000 photographs 1652, 1653, 1654 and then located radially on sheet T-5720. The center of the 20,000 photograph 4753 was established by orienting the photograph to the triangulation, flight lines and existing secondary radial points.

With secondary control points already established and the secondary control points transferred from sheet T-5808 it was then possible to orient 20,000 photographs 4753 and 4754 in conjunction with the 10,000 photographs and obtain additional secondary control points in the southeastern section of sheet T-5720.

Several new secondary radial points established on this plot and common to sheet T-5808 were transferred thereon.

The tilt for the photographs whose centers fall within the limits of this sheet are as follows:

1338	1° 31'
1650	1° 09'
1652	1° 31'
1653	0° 22'
1654	1° 23'
4775	0° 43'
4776	1° 37'

The photograph centers located on this sheet are mechanical centers unless the calculated tilt is more than 0 - 49', in which case the isocenters were pricked.

HYDROGRAPHIC SIGNALS:

A number of natural objects have been located on this sheet for use as hydrographic signals. These objects are shown by black circles 1.5 mm. in diameter.

RECOVERABLE TOPOGRAPHIC STATIONS:

Several objects have been located on this sheet for use as recoverable topographic stations and are shown by a black circle 2.5 mm. in diameter.

DETAIL:

Detailing on this sheet as far as possible was taken from the latest photographs.

Roads were detailed according to the field inspectors' notes as shown on the field inspection prints.

Most of the roads on this sheet are shown by their centerlines, except a few which have been shown by double lines.

All public roads maintained the year around and drained, by the State or County, regardless of road surfacing, have been labeled on the sheet "d.f.l." (double full line) or indicated by double full lines.

All private roads, which are not available for use by the public, have been labeled on the sheet "d.d.l." (double dashed line) or indicated by double dashed lines.

Trails have been shown on this sheet by a single dashed line.

Unless the actual width of roads are indicated on the sheet, they should be drawn 0.6 mm. in width.

All buildings that were visible on the photographs of this sheet have been shown. Several new buildings indicated on the field prints are also shown on this sheet.

In the town of Cambridge all buildings along the shoreline and only the public buildings in the town proper are shown.

Wooded areas have been outlined and labeled.

All fences on this sheet have been shown by the standard symbol.

Intermittent streams and probable drainage have been shown by a solid line and ditches labeled "ditch." In most cases the probable drainage streams were located by the stereoscope.

The town limits of Cambridge is shown by the standard symbol in red ink.

A catwalk seen on photograph 4775 and 4776 alongside the bridge over the creek through Cambridge, has not been shown on this sheet, as this catwalk was a temporary structure for use during the construction of a new bridge.

COMPARISON WITH PREVIOUS SURVEYS:

Chart No. 1225 (1935): The island shown at the entrance to Bolingbroke Creek is now joined to the mainland by a narrow strip of land at latitude 38 35' 10" longitude 76 02' 34", otherwise the shoreline as nearly as could be ascertained from inspection, is in fair agreement.

Chart No. 77 (1936): The shoreline appears to be in fair agreement as near as could be ascertained from inspection. No detailed comparison could be made because of the large difference in scale.

[redacted]

GEOGRAPHIC NAMES:

The geographic names shown on this sheet are listed on form M-234 in the appendix.

The street names in the Town of Cambridge were obtained from the town map of Cambridge, Md.

The route numbers of the roads shown on this sheet were obtained from the general highway map of Dorchester County which was prepared by the Maryland State Roads Commission in 1941.

LANDMARKS:

[redacted]

land — August 12 — 1941

ard to determine their value as landmarks,

t. L. T. Swanson — *Chief of Party.*

METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
Triang-ulation	1934				77 1936
"	"				"
"	"				"
Air Photo	March 1940				"
"	"				"
"	"				"
"	"				"
"	"				"
"	July 1937				"
"	March 1940				"
"	March 1940				"
"	"				"

KS FOR CHARTS." The data should be
nder each column heading should be given.

	Remarks	Decisions
1		
2		
3	Well established local name	
4	* called Ferry Creek	
5	% spelled Chancellors Point # spelled Chancellors Point	
6		
7	&*@/ all spelled Hambrook Bar	
8	Well established local name.	
9		
10		
11		
12		
13	$ called Cambridge and Seaford R.R. % called P.B. & W. R.R.	
14		
15	* Small beach resort well established local name but relatively unimportant for charting.	
16		
17	Names and addresses of persons from whom local information was obtained as noted are as follows:	
18	1 H.R.Slacum, Cambridge, Maryland.	
19	2 R.F.Johnson " " 3 H.M.Nevius Trappe,Maryland.	
20		
21		
22		
23		
24		
25		
26		
27		

M 234

GEOGRAPHIC NAMES

Division of Photogrammetry
Review Report for
Planimetric Map No. T-5720

The original descriptive report for T-5720 together with the Washington Office review report have been lost in the office. The preceding carbon copy of the original descriptive report was recently obtained from the Baltimore Office and is substituted in lieu of the original.

T-5720 is one of a series of planimetric maps compiled in the Baltimore Photogrammetric Office. Dates of the various operations are as follows:

Nine-lens photography in 1937.

Field inspection ~~about~~ in 1939 ~~or~~ and 1940.

Compiled in 1941.

Submitted to the Washington Office in August 1941.

Washington Office review April 1943.

Smooth drafted and printed 1945.

Registered May 1947

Washington Office processing of the manuscript was delayed because of the war map work of the Bureau. Meanwhile, T-5720 was used as a planimetric base for the preparation of 7½-minute quadrangle T-8243. The quadrangle was prepared by using the planimetric base as a planetable sheet and adding contours and corrections and additions to the planimetry. The quadrangle was completed between 1942 and 1944.

Horizontal accuracy tests of the quadrangles in this general area proved the accuracy of the planimetric maps. From the accuracy test, it appears that well-defined details on T-5720, and other planimetric maps in this area, are within 1 millimeter, or less than 1 millimeter, of correct geographic position.

During the Washington Office review, T-5720 was compared with quadrangle T-8243, but was not corrected to include all the additional details shown on the quadrangle. Quadrangle T-8243 therefore shows contours a and additional buildings, etc. not shown on T-5720.

T-5720 may have been applied to the nautical charts prior to the Washington Office review. Changes made on the manuscript during the review are shown in red and are not of consequence to the nautical charts.

This report prepared by B. G. Jones, May 1947.

APPROVED BY:

B.G. Jones 5/47
Technical Assistant to the
Chief, Div. of Photogrammetry

Chief, Nautical Chart Br.
Div. of Charts

K.T. Adams
Chief, Div. of Photogrammetry

C.H. Green
Chief, Div. of Coastal
Surveys