

5808

5808

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic

Field No. \_\_\_\_\_ Office No. T-5808

LOCALITY

State Maryland

General locality Choptank River

Locality Indian Creek and Vicinity

194 2

CHIEF OF PARTY

L. W. Swanson

LIBRARY & ARCHIVES

DATE

Jan 24 1946

B-1870-1 (1)

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-5808

REGISTER NO.

State Maryland

General Locality Chesapeake Bay

Locality Cambridge, Md.  
Photographs

Scale 1:10,000 Date of ~~XXXXX~~ March 13, 19 40

Vessel Air Photographic Survey Party No. 2

Chief of party L. W. Swanson

Surveyed by Field Inspection by J. A. Lajoie

Inked by J. L. Rihn and J. A. Lajoie (Rough Draft)

Heights in feet above ..... to ground to tops of trees

Contour, Approximate contour, Form line interval ..... feet

Instructions dated May 13, 1938, 19 .....

Remarks: .....



DATA RECORD T-5808PHOTOGRAPHS

Numbers	Date	Time	Scale	Altitude	Stage of Tide*
4777-4778	3-12-40	12:13 P.M.	1:10,000	Unknown	0.1 ft. below M.L.W.
4791-4792	3-12-40	12:25 P.M.	1:10,000	Unknown	0.2 ft. below M.L.W.

\*Tide prediction table for Cambridge, Md., mean range 1.6 ft., spring range 1.9 ft.

Camera: U. S. Coast & Geodetic Survey nine-lens camera  
Focal length of  $8\frac{1}{4}$  inches  
Negatives on file in Washington Office

SUPPLEMENTAL SURVEYS

Graphic Control Surveys.....None  
Hydrographic Surveys.....None *Sect.*  
Field Inspection.....J. C. Lajoie.....Autumn, 1941  
Geographic Name Investigation.....J. C. Lajoie.....Autumn, 1941

The details on T-5808 are of the date of the photographs.

GENERAL INFORMATION

	Date
Chief of Party.....L. W. Swanson	
Projection by.....Washington Office.....	3/9/41
Projection Checked by.....Washington Office.....	3/9/41
Control Plotted by.....Wm. Van Loon.....	3/12/41
Control Checked by.....Carl W. A. Supp.....	3/13/41
Radial Plot by .....W. E. Schmidt.....	
Radial Points pricked by.....Wm. Van Loon.....	3/14/41
Additional Points by.....J. C. Lajoie & J. L. Rihn.....	3/9/42
Shoreline Inked by.....J. C. Lajoie & J. L. Rihn.....	3/11/42
Detail (rough draft) Inked by.....J. C. Lajoie & J. L. Rihn.....	3/18/42
Scale.....1:10,000 (No Scale Factor)	

STATISTICS

Area (land).....9.0 Sq. Statute Miles  
Shoreline (more than 200 meters from opposite shore).....7.6 Statute Miles  
Shoreline (less " " " " " " ).....4.5 Statute Miles  
Roads, Streams, Trails.....75.0 Statute Miles  
Time required for detailing shoreline.....5.0 Working Days  
Time required for detailing inshore.....10.5 Working Days

REFERENCE STATION

Indian, 1934 Datum: North American 1927 (adjusted)  
Latitude:  $38^{\circ} 35' 01.750''$  (54.0 Meters)  
Longitude:  $75^{\circ} 58' 53.853''$  (1303.5 meters)

Maryland System of plane coordinates X—Y  $X = 1,091,107.21 \text{ FT.}$   
 $Y = 274,932.04 \text{ FT.}$



DESCRIPTIVE REPORT  
TO ACCOMPANY  
AIR PHOTOGRAPHIC SURVEY SHEET NO. T-5808  
STATE OF MARYLAND  
CHESAPEAKE BAY - CAMBRIDGE

Date of this report

May 21, 1942

INSTRUCTIONS

The topography on this sheet is part of Project HT-215D, the instructions for which are dated May 13, 1938 and supplemental instructions dated 3/3/38, 6/1/38, 6/19/38, and 8/28/39.

CONTROL

The control consists of two stations shown on this sheet by the triangulation symbol. The following is a list of the control and its sources:

U. S. Coast and Geodetic Survey  
East New Market, water tank, 1934  
Indian, 1934

Station "Whitehall, 1909" is also shown on this sheet by the triangulation symbol, but it was used as a check on the accuracy of the radial plot and was not used as control.

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

RADIAL PLOT

A 1:20,000 scale radial plot was first run to establish secondary control points. These points were transferred to this sheet, and a 1:10,000 scale radial plot was run. Two special reports have already been submitted to the Washington Office describing these plots in detail.

Special Report  
Swanson, L.W.  
1941/124  
(Library)

The Maryland Shell Fish Survey station "Whitehall, 1909" was recovered after the 1:10,000 scale radial plot had been run. It was decided to use it as a check on the radial plots. The position found by the radial line method for this station checked its plotted geographic position within  $3\frac{1}{2}$  meters. It was possible to get a check this close even though the pricking of this station on the photographs was very difficult.



Six photographs were used to obtain additional radial points. They had already been investigated for tilt, the results of which are:

4775-  
4776-1° 37'  
4777-Inappreciable

4778-Inappreciable  
4791-Inappreciable  
4792-1° 11'

#### SCALE

~~The~~ <sup>the manuscript</sup> scale of ~~this sheet~~ is 1:10,000. There is no scale factor.

#### DETAILING

The stereoscope was used to examine all drainage on this sheet. The customary symbols for topography were used. All roads are to be considered six meters wide unless otherwise noted.

Because of the large difference in scale between the photographs and the map drawing, it was necessary to use the projection machine in transferring all of the detail. It was found that white pigment ink on the photographs shows up best under the projection machine.

#### COMPARISON WITH PREVIOUS SURVEYS

##### Map Drawing, T-2495 (1900)

This is a 1:20,000 scale map which has been enlarged to a 1:10,000 scale. The projection lines for the N.A. 1927 datum were constructed on this map so that an accurate comparison could be made.

1. There is very good agreement with the Choptank River shoreline. The marsh areas show the greatest change from erosion. The maximum that the shore has receded is about 30 meters.
2. The banks of Goose Creek and Indian Creek show a maximum change from erosion of 50 meters. Small marsh areas have been built up in some places. They are not further than 50 meters from the former shoreline.
3. The size, shape, and location of the small pond between Oystershell Pt. and Indian Creek have been greatly changed. The pond extends inland 400 meters further than it had before.



4. A small pond or inlet has been created just northeast of ~~Newton~~ <sup>Whitehall</sup> Creek.
5. ~~Newton~~ <sup>Whitehall</sup> Creek has been transformed into a long narrow inlet, 90 meters wide and 900 meters long.
6. The dock just ~~west~~ <sup>east</sup> of Oystershell Pt. has disappeared, and new ones have been built further west.
7. Inshore, many new roads have been constructed and old roads relocated. Where there is apparently no change in the location of the roads, the two surveys are in fair agreement. The greatest discrepancy is about 50 meters.

Chart No. 1225 (1935)

Since this chart is at a 1:80,000 scale, no accurate comparison could be made. As far as could be ascertained, the detail shown in this area was obtained from map drawing T-2495. Therefore, the comments on the comparison with the map drawing should also apply to this chart.

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 on the drawing, 1.5 mm. in diameter. Their descriptions will be found on the overlay sheet.

GEOGRAPHIC NAMES

Geographic names for this area will be found on the overlay sheet. They are listed on Form 234 in the appendix.

JUNCTIONS

Good junctions were made with T-5720 on the east and T-5809 on the north.

RECOVERABLE TOPOGRAPHIC AND HYDROGRAPHIC STATION

There are no such stations in the area covered by this map drawing.

LANDMARKS

There are no landmarks recommended for charting or deletion in this area.



REMARKS

This sheet is believed to be complete in all details of importance for charting, and no additional surveys are necessary.

The probable error is no greater than five meters for well-defined objects along the waterfront. The error of other details is not greater than ten meters.

Respectfully submitted



Jack L. Rihn

Principal Photogrammetric Aide  
(Field)

Forwarded Approved: 5/21/42



L. W. Swanson  
Chief of Party





## Remarks

## Decisions

1		385760
2		385759
3		"
4		"
5	*Newtown Creek	385760 U.S.G.B
6		386762
7		385759
8		385760
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		



REVIEW OF T-5808  
DIVISION OF PHOTOGRAMMETRY

Radial Plot.

The main radial plot, as discussed on page 1, was somewhat unusual, but was not checked during this review. Office photographs were oriented under the manuscript and cuts taken on compiled details. This approximate check indicated that all points are within ~~1.0-1.5~~ mm of correct position.

Field Inspection and Detailing.

Review of this map was delayed by the topographic mapping program undertaken for the War Department which covers the same area. T-5808 was used to prepare planimetric base sheets for contouring of quadrangles T-8243 and T-8244, and the field edited copies of those quadrangles were compared with T-5808 during this review.

In accordance with original instructions, T-5808 was not intended to be as complete for buildings and interior cultural details as the quadrangles. Therefore, it has not been corrected to include all information shown on the quadrangles. However, it has been corrected to make it relatively complete for drainage and roads.

Comparison with Previous Topographic Surveys.

T-5808 is complete and adequate to supersede common areas covered by the following previous surveys:

T- 253	1:20,000	1848
T-2495	1:20,000	1900

Comparison with Nautical Chart 1225.

T-5808 was applied to Chart 1225 in November 1942 prior to this review. Changes made on the manuscript during review are shown in red and should be examined by the Nautical Chart Branch when Chart 1225 is again taken up.

Aeronautical Charts.

The small private airport at Cedar Grove is not shown on the Washington sectional chart. It has been reported to the Aeronautical Chart Branch.

Reviewed by: W. W. Belling

Under the direction of D. H. Benson

Approved by:

*B. G. Jones 6/46*

B. G. Jones, Technical Asst.  
Div. of Photogrammetry

*Robert W. Long*

Chief, Nautical Chart Branch  
Division of Charts

*K. T. Adams*

Chief, Div. of Photogrammetry

*Raymond P. Gorman*

Chief, Div. of Coastal Surveys