

5701

5701

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Planimetric Map
Field No.	T-5701
Office No.	
LOCALITY	
State	Maryland
General locality	Chesapeake Bay
Locality	Eastern Neck to Spaniard Neck
Photos taken in May and July, 1937.	
Supplemented by other surveys to	
Oct. 1939.	1940
CHIEF OF PARTY	
L. W. Swanson	
LIBRARY & ARCHIVES	
DATE	

Applied to drawing of chart 548 Oct. 1940 J.T.W.

Applied to drawing of chart 549 May 28, 1941 H.E.M.

Applied to Reconstruction Chart 548 (except in area Ch 549)
8-5-41 J.T.W.

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-5701

REGISTER NO.

State Maryland

General locality Chesapeake Bay

Locality Eastern Neck to Spaniard Neck

Scale 1:10,000x0.955 Date of photographs May 1, 1937
July 8, 1937, 19

Vessel Air Photographic Survey Party No. 2

Chief of party L.W. Swanson

Surveyed by Field inspection by W.C. Russell and D.A. Jones

Inked by J. Aleck (Rough Draft) ; A. L. Wardwell (Shoreline)

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated May 13, 1938

Remarks: _____

DATA RECORD T-5701PHOTOGRAPHS

Nos.	Date	Time	Scale	Altitude	Stage of Tide*
1360-1362	5/1/37	9:14-9:45	1/10000	Approx 6875 ft.	1.3 ft. above M.L.W.
1400-1402	"	10:17-10:24			1.4 ft. above M.L.W.
1468-1470	"	2:18-2:25			0.8 ft. above M.L.W.
1676	7/8/37	10:44-11:08			0.8 ft. above M.L.W.

*Tide from predicted tables, Chesapeake Bay, Telechester Beach, mean range 1.3 ft.
 Camera: U.S. Coast and Geodetic Survey nine lens camera.
 Focal length $8\frac{1}{2}$ inches. Negatives on file in Washington Office.

SUPPLEMENTAL SURVEYS

Graphic control surveys:-----None-----
 Hydrographic surveys:-----None-----
 Field inspection:----W.C. Russell and D.A. Jones-----Fall, 1939**

GENERAL INFORMATION

Chief of Party-----L.W. Swanson-----
 Projection by:-----Washington Office-----Ruling machine-----5/4/39
 Projection checked by :-----Washington Office-----5/4/39
 Control plotted by:-----R.A. Gilmore-----5/8/39
 Control checked by:-----W.C. Russell-----5/8/39
 Radial plot by:-----W.C. Russell and A.L. Wardwell-----5/17/39
 Compiled by:-----J. Aleck-----3/1/40 to 4/30/40
 Shoreline inked by:-----A.L. Wardwell-----
 Smooth draft by:-----
 Radial points picked by:-----R.A. Gilmore and W.C. Russell-----
 Additional points picked by:-----J. Aleck-----

STATISTICS

Area (land)-----9.8 square statute miles
 Shoreline (more than 200m. from opposite shore)-----35.8 " "
 Shoreline (less than 200m. from opposite shore)-----1.3 " "
 Roads, streams, trails, railroads-----32.8 " "

REFERENCE STATION

Ashley, 1938 Datum: North America 1927
 Latitude: 39 05 46.266 (1426.7)
 Longitude: 76 11 08.269 (148.7)
 Maryland system of plane coordinates: $x = 1,031,129$ Ft. y coordinate: 460,937 Ft.

**The details on T-5701 are of the date of the photographs.

DESCRIPTIVE REPORT
to accompany
AIR PHOTOGRAPHIC SURVEY SHEET NO. T-5701
STATE OF MARYLAND
CHESAPEAKE BAY-EASTERN NECK (UPPER PART) TO SPANIARD NECK

Date of this report -----June 17, 1940

INSTRUCTIONS:

The topography on this sheet is part of Project H.T.-215 the instructions for which are dated May 13, 1938.

CONTROL:

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

U.S. Coast and Geodetic Survey Triangulation

--Alpin, 1938
x Apple F.I.S.
Ashley, 1938
Black Water Tank (Easterly), 1938
--Brown, 1909-1938
Gum, 1938 (Pine F.I.S.)
Herring (M.S.F.S.) 1909
Huntingfield ~~Black Water~~ Tower No. 15, 1918-1933
7 x Low (F.I.S.) ~~Bank~~
x Pine (F.I.S.)
Pioneer, 1938 (Low F.I.S.)
Prussian (M.S.F.S.) , 1909
x Stoop, 1938 (Apple F.I.S.)
x Swepson (M.S.F.S.) , 1909

Aside from the control noted, all available control falling on this sheet was used in controlling the radial plot.

RADIAL PLOT:

The radial plot for this sheet was run in conjunction with that of sheets 5692, 5695, 5698, and 5703. A description of the radial plot is given in the descriptive report for sheet 5698.

SCALE:

The scale of this sheet is 1:10,000 x 0.955 .
The results for the scale plot can be found in the descriptive report for sheet 5692.

DETAILING:

Except for control and geographic names, all information on this sheet was taken from the field inspection notes and from the photographs.

COMPARISON WITH PREVIOUS SURVEYS:

(a) Chart No. 548- As nearly as could be ascertained, the shoreline agrees with that of Chart No. 548 . Because of the large difference in scale, no detailed comparison could be made.

(b) T-2241 (1896) The shoreline has receded from 50-100 m. since 1896 .

Many inland details have remained unchanged.

(c) T-2242 (1896) The shoreline has receded from 20-50 m.

A few of the inland details have remained unchanged.

The shoreline of Church Creek has changed very little. Many small changes due to erosion and accretion have altered the shoreline which along most of its length is the boundary of marsh land.

(d) T201 (1896) The general shape of the shoreline is unchanged but the shoreline along marshes has eroded as much as 100 m. Many inland details have changed. The land is now more developed.

JUNCTIONS:

This sheet joins T-5698 and T-5699 on the north; T-5702 on the east; and T-5703 on the south.

T-5702 has not yet been detailed.

T-5699 " " " " " "

The D.F.L. crossing the junction with T-5698 at longitude 76 10.6 (approximately) is drawn as a ^(double full line) D.D.L. on sheet T-5698. ^(double dashed line) T-5698 should be corrected.

NAMES:

The geographic names shown on this sheet are listed on Form 234 in the appendix.

LANDMARKS:

Landmarks for this sheet are listed on Form 567 in the appendix.

RECOVERABLE HYDROGRAPHIC AND TOPOGRAPHIC STATIONS:

These stations are indicated by the proper symbol on the rough draft sheet No. T-5701 .

REMARKS:

This sheet is believed to be complete in all detail of importance for charting and no additional surveys are required.

The probable error is not greater than 5 meters for ^{main} radial points (shown in violet on the back of this sheet) and well defined objects along the waterfront. The error of other detail is not greater than 10 meters.

Respectfully submitted,

Joseph Aleck
Joseph Aleck
Photogrammetric Aid (Field)

Forwarded approved

L.W. Swanson
L.W. Swanson
Chief-of-Party

June 18, 1940

GEOGRAPHIC NAMES

Survey No.

Name on Survey			Chart 548 On Chart No. 1226	On previous survey No.	On U. S. Quadrangle Maps	From local information	Kent County Map On local Maps 1903 and 1929	P. O. Guide or Map	Atlas of Kent on Bay Rand McNally Atlas 1922 Light U. S. Light List	Kent Map
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	14
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	16
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	17
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	18
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	19
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	20
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	21
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	23
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	24
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	25
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	26
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	27
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	28

Remarks

Decisions

1	+ spelled ^{spelled} Comegys Bight; ⊙ Comegy's Bight	Comegys	391761	1
2	* Called Cliffs Ldg. K.C. also Quad. Map X ⊗ Cliffs City Whf.		"	2
3	⊗ Cliff Bight		"	3
4	⊗ Cliff City Pt.	U.S.G.B	"	4
5			390761	5
6	+ spelled Spaniards Neck		"	6
7	* called Spaniards Ldg., also on X	Spaniard Pt	"	7
8	* X ^{called} Spaniards Pt.; * Spaniard Pt.	(U.S.G.B) (as on ch. 548)		8
9			"	9
10			"	10
11	* * X Town Pt.	Town Pt (U.S.G.B)	"	11
12			391761	12
13	⊙ Langford Bay; also on * + X ⊗ ⊕	U.S.G.B	390761	13
14			391761	14
15	+ called Doctors Cove	OK for this sheet: no longer on ch. 548	"	15
16			"	16
17			"	17
18			"	18
19			390761	19
20		Grays	"	20
21			391761	21
22		Grays	390762	22
23	Near Browns Cove		391762	23
24			"	24
25			"	25
26			"	26
27			390762	27
M 234			"	28

GEOGRAPHIC NAMES

Survey No.

Name on Survey

Chart 548
On Chart
No. 1226

On previous survey
No.

On U. S. quadrangle
Maps

From local
information
Kearney County, N.Y.
On local Maps
1903 and 1929

P. O. Guide or Map
Atlas of Kent and Queen
Road McNally Atlas
County, N.Y. 1877

U. S. Light List
Kearney Map

A	B	C	D	E	F	G	H	
	T2291							1
								2
								3
								4
								5
								6
								7
								8
								9
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								27

Remarks

Decisions

1		390762	1
2		"	2
3	+ called Gum Pt.	"	3
4	USE Holton Pt PENDING USGB DECISION.	"	4
5	U.S.G.B decision	390761	5
6		"	6
7		"	7
8		390762	8
9		"	9
10		391762	10
11		391761	11
12		390762	12
13		"	13
14		U.S.G.B.	14
15			
16			
17		by L Heck on 3/15/41	
18			
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GEOGRAPHIC NAMES

Survey No.

T-5701--additional

Name on Survey

On Chart No.
On previous survey No.
On U. S. quadrangle Maps
From local information
On local Maps
P. O. Guide or Map
Rand McNally Atlas
U. S. Light List

	A	B	C	D	E	F	G	H	K	
<u>Wilson Pond</u>										1
<u>Long Cove</u>										2
<u>Wilson Point</u>										3
<u>Eastern Neck Narrows</u>										4
<u>Ringgold Point</u>										5
<u>Fryingpan Island</u>										6
<u>Rush Island</u>										7
<u>Boxes Point</u>										8
<u>Fryingpan Cove</u>										9
<u>Gordon Point</u>										10
<u>Redd Creek</u>										11
<u>Wright Neck</u>										12
<u>Grove Creek</u>										13
<u>Baybush Point</u>										14
<u>The Cedars</u>										15
<u>Short Cove</u>										16
										17
										18
										19
										20
										21
										22
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										24
										25
										26
										27

listed twice

" "

" "

" "

Names underlined in red approved

by Lt. Heck on 9/5/41

T-5701

	Remarks	Decisions
1		390762
2		"
3		"
4		" U.S.G.B.
5		" "
6		"
7		"
8		"
9		" U.S.G.B.
10		390761
11		"
12		"
13		"
14		390762
15		"
16		"
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TO BE CHARTED }
~~HOUSES OF LEBEY~~

STRIKE OUT ONE

LANDMARKS FOR CHARTS

Baltimore, Md.

June 17, 1981 40

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks, be charted on the charts indicated.

The positions given have been checked after listing.

L.W. Swanson

Chief of Party.

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

REVIEW OF AIR PHOTO COMPILATION NO.

Chief of Party: *L. W. Swanson*

Compiled by: *A. L. Wardwell*
J. Aleck

Project:

Instructions dated: *May 13 1938*

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b, ~~d~~, e, g and i; ~~28~~; and 64)
2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g, n)
3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d, e)
None
4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)
None
5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.
No contemporary plane table or hydrographic surveys.
6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c, ~~d~~, ~~e~~)
17. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

- ~~8.~~ The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)
- ~~9.~~ Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)
10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)
- ~~11.~~ All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)
12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and ~~65~~)
13. ✓ The geographic datum of the compilation is *N.A. 1927* and the reference station is correctly noted.
14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)
15. The drafting is satisfactory and particular attention has been given the following:

 1. ✓ Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 2. ✓ The degrees and minutes of Latitude and Longitude are correctly marked.

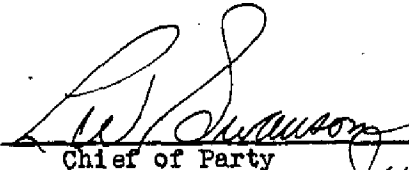
3. All station points are exactly marked by fine black dots.
4. Closely spaced lines are drawn sharp and clear for printing.
5. Topographic symbols for similar features are of uniform weight.
6. All drawing has been retouched where partially rubbed off.
7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, ~~37~~, ~~38~~, ~~39~~, 40, ~~41~~, 42, 43, ~~44~~, 45, 46, ~~47~~)

16. No additional surveying is recommended at this time. ✓

17. Remarks:

18. ✓ Examined and approved;


Chief of Party

June 18, 1940

19. Remarks after review in office:

Reviewed in office by:

Examined and approved:

Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of Hydrography
and Topography.

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-5701

There are no contemporary graphic control surveys in this area.

Hydrographic Surveys

The 1940 hydrographic survey of the Chester River has not yet been received in the office.

Comparison with Hydrographic Surveys

Several of the topographic stations on this sheet were relocated and the positions changed slightly after the hydrographic boat sheets and smooth sheets were made. These stations are listed below and the positions on the hydrographic smooth sheet should be corrected when the latter is reviewed.

N. Gable of green shingled house (on Chesapeake Bay)
Point of marsh grass (on Church Creek)
Duck blind (2 on Church Creek)
Duck blind (3 at entrance of Grays Inn Creek)
S. E. corner large dock (on Grays Inn Creek)

Previous Topographic Surveys

T-2291, 1:20,000, 1897, covers the lower part of Chester River and its tributaries. There have been changes up to 30 meters in the shoreline mostly washing away of the edges of marshland, but there are a few instances of accretions.

Several piers in use in 1897 are now in ruins or gone entirely, notably Cliffs Wharf, Spaniard Wharf and Harris Wharf, while other small piers have been built in Herringtown Creek, Long Cove, and Grays Inn Creek.

T-2241, 1:10,000, 1897, covers the Chesapeake Bay shoreline from Huntingfield Creek down to Lat. $39^{\circ} 05'$. This shoreline is backed by cliffs from 10 to 20 feet high and has washed away up to 110 meters since 1896.

T-2242, 1:10,000, 1896, covers the Chesapeake Bay shoreline from Lat. $39^{\circ} 05'$ south to Chester River. Comparison with T-5701 indicates a gradual washing away of the cliff up to a maximum of 30 meters since 1896.

T-199, 1:20,000, 1854, covers the Chesapeake Bay shoreline from Huntingfield Creek south to Chester River. Comparison with T-5701 shows that the cliff between Lat. $39^{\circ} 06'$ and Lat. $39^{\circ} 07'$ has washed back 180 meters since 1854 and that south of Lat. $39^{\circ} 06'$ has washed back about 35 meters.

T-201, 1:20,000, 1846, covers lower Chester River and its tributaries. The general shape of the shoreline has changed little, but there have been changes up to 100 meters where marsh has been cut away.

T-5701 supersedes all of the above previous surveys for charting purposes, except for contour lines on T-2291, T-2241, and T-2242.

Charts 77, 1226, 548, 549

Chart 548, 1:40,000 (printed May 15, 1941)

The Chesapeake Bay shoreline from Huntingfield Creek to Chester River has washed back from 30 meters to a maximum of 110 meters since the survey upon which the chart was based. It also appears that the stone jetties at Lat. $39^{\circ} 05.5'$ are of different appearance than is shown on the chart.

Minor changes in shoreline have occurred along Chester River and its tributaries. The largest shoreline change is in the marsh between Church Creek and Chester River at Lat. $39^{\circ} 04'$; the width of the marsh at this point has been reduced by about 150 meters, 110 meters being from the Chester River side. Several old piers or wharves are now in a state of ruin and several new piers have been built. The 1940 hydrographic survey of Chester River should show whether the old piers are entirely gone or whether some piles still remain.

Chart 549, 1:40,000 (printed May 22, 1941)

The first paragraph under the comparison of Chart 548 and T-5701 also applies to 549. In addition, the numerous orchards shown on 549 are now largely gone.

T-5701 was reported as having been applied to chart drawing 548 in October 1940 and to chart drawing 549 in May 1941. During the review of T-5701 July 1941, the details of the marsh line of the small creek at Lat. $39^{\circ} 05'$, Long. $76^{\circ} 07.8'$ were changed slightly.

NOTE:

T-5701 was compiled in 1940 and reviewed in 1941, but processing in the Washington Office was not completed until July 1946 because of war map work of the Bureau. Meanwhile, the Coast and Geodetic Survey produced topographic quadrangles (manuscript scale 1:20,000) for the War Department of this same area. Planimetric details from T-5701 were used as a base in preparing quadrangle T-8273, which was completed in 1943. This quadrangle is more recent and more complete as regards map details than T-5701, but is at a smaller scale.

M. J. Jones
8/46

Charts 1226 and 77

In general, the discussion under chart 548 above also applies to charts 1226 and 77 which are on greatly reduced scales.

Radial Plot

A description of the radial plot is given in the Descriptive Report accompanying T-5498. Sheets T-5692, T-5695, T-5698, T-5701, and T-5702 were plotted as a unit, being the first plot undertaken by the field party in Baltimore. There is excellent control on T-5701 and the main radial plot is very good.

Field Inspection and Detailing

The field inspection is complete and the detailing on T-5701 is sufficient on the rough drawing to enable completion of the final smooth sheet or blue line.

Junctions

The junctions with T-5703, T-5698, and T-5699 were checked and found in agreement. Sheet T-5702 has not been received in the office and hence could not be checked at this time.

(See Note)

Reviewed in office by D. H. Benson, July 17, 1941

Inspected by B. G. Jones 8/46 *B.G. Jones*

Examined and approved:

K.T. Adams
Division of Photogrammetry
Chief, ~~Surveys Section~~

Robert W. Hays
Nautical chart Branch
Chief, ~~Division of Charts~~

~~Chief, Section of Topography~~

Raymond P. Egan
Chief, Division of Coastal
Surveys