

5698

No. 44-11

5698

Form 504 Rev. Dec. 1933	
DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR	
DESCRIPTIVE REPORT	
Topographic <del>Topographic</del>	Air Photographic Sheet No. T-5698
State MARYLAND	
LOCALITY	
CHESAPEAKE BAY	
NORTHERN PART <del>EASTERN SHORE</del>	
SWAN CREEK - LANGFORD CREEK <del>SWAN AND LANGFORD CREEKS</del>	
Photographs taken, May 1, 1937	
193 9	
CHIEF OF PARTY	
L. W. Swanson	

Applied to chart dwg 549. June 14, 1941. L.Am.

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-5698

REGISTER NO. T5698

State MARYLAND

General locality Chesapeake Bay - ~~Southern Shore~~ NORTHERN PART

Locality SWAN CREEK - LANGFORD CREEK  
~~Swan and Langford Creeks~~

Scale 1:10,000 Date of ~~survey~~ <sup>photographs</sup> May 1, 1937 1938

~~Vessel~~ Air Photographic Party No. 2, Baltimore, Md.

Chief of party L. W. Swanson  
Field Inspection by Don A. Jones, W. C. Russell  
Surveyed by and R. A. Gilmore

Inked by A. L. Wardwell

Heights in feet above \_\_\_\_\_ to ground to tops of trees

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated May 13, 1938

Remarks: Scale factor of 0.955 makes the true scale 1:10,471

DATA RECORD - T-5698

No.s	Date	Time	Scale	Altitude	Stage of Tide
1362-1365	May 1, 1937	9:40-9:43	1:10,000	6,900 ft.	1.2 ft. above M.L.W.
1398-1401	" " "	10:19-10:21	1:10,000	6,900 ft.	1.3 ft. above M.L.W.
1470-1473	" " "	2:23-2:26	1:10,000	6,900 ft.	0.7 ft. above M.L.W.

Stage of Tide from predicted tides, Tolchester Beach, Md., mean range 1.3 ft., spring range 1.5 ft.

Camera: U. S. Coast and Geodetic Survey nine lens, F. = 8 $\frac{1}{4}$  inches.

SUPPLEMENTAL SURVEYS:

	Reg. No.	Field No.	Date
Graphic Control Surveys	none		
Hydrographic Surveys			

Field Inspection by:	Don A. Jones	1938
	W. C. Russell	1938-
	R. A. Gilmore	1939

The details on T-5698 are of the date of the photographs except for items which were located by a field inspection party, and which ~~is~~ are discussed in detail on page 2 of this report *date of location of the additional details not given but this was probably done in 1939*

Chief of Party:	L. W. Swanson
Projection by:	Ruling Machine, <del>April</del> May, 1939
Projection checked:	Washington Office, <del>April</del> May, 1939
Control plotted by:	W. C. Russell and A. L. Wardwell, May & Oct., 1939
Control checked by:	Don A. Jones and I. M. Zeskand, May & Oct., 1939
Radial plot by:	W. C. Russell, May, 1939
Compiled by:	A. L. Wardwell 1939
Inked by:	A. L. Wardwell 1939
Reviewed in field by:	L. W. Swanson
Smooth drawing:	August 8 - October 5, 1939.
Scale:	1:10,000

REFERENCE STATION:

Swan Point Tower No. 14	Lat. 39 08 56.318	(1736.7 meters)	adjusted.
1918, 1933.	Long. 76 16 31.122	(747.3 meters)	

STATISTICS:

Area (land)	26 sq. statute miles
Shoreline (more than 200 meters from opposite shore)	30.5 statute miles
Shoreline (less than 200 meters from opposite shore)	25.9 statute miles
Roads, streams and trails	92.1 statute miles

Time required for detailing, not counting the time taken up by re-running and correcting the radial plot 32 working days.

X coordinate: 1,005,523.90 Ft. 153<sup>m</sup> 502 ft 2<sup>m</sup>  
 Y coordinate: 479,949.38 Ft. 157<sup>m</sup> 160<sup>m</sup>  
 251 ft

## DESCRIPTIVE REPORT

To accompany celluloid Map Drawing Sheet No. T-5698

### MARYLAND

Eastern Shore of Chesapeake Bay, Swan and Langford Creeks.

#### GENERAL INFORMATION:

The photographs for this area were taken with the U. S. Coast and Geodetic Survey nine lens aerial camera on May 1, 1937.

Field Inspection was done by Don A. Jones and W. C. Russell in 1938, and by R. A. Gilmore in 1939.

#### CONTROL:

The following-named triangulation stations fall within the tracing limits of this sheet;

Steel Tower No. 13, 1918, 1933.

Swan Pt. Tower No. 14, 1918, 1933.

West M.S.F.S. (Maryland Shellfish Survey) 1909.

King M.S.F.S. 1909

Whale M.S.F.S. 1909

Rail M.S.F.S. 1909

Haven M.S.F.S. 1909

Treasure M.S.F.S. 1909

Corr M.S.F.S. 1909

Windmill, Orchard Pt. Farms, 1938 (unadjusted)

#### RADIAL PLOT:

The radial plot for this sheet was done by this party in Baltimore, in May, 1939, along with sheets No.s 5692 and 5695 to the north, and 5701 and 5703 to the south of this one. Dummy sheets were made of the map drawings and joined together by matching projections. The templates were then layed down and secured together by Scotch tape. The map drawings

were then placed over the templates and oriented by projection lines and control. The intersections of the radial lines on the templates were then pricked on the map drawings.

For this plot radial points were spaced roughly about four inches apart on the pictures. They were used to supplement the control stations in plotting the large number of additional points necessary for the detailing. This plot was the first one done by this party where the idea of obtaining fewer well-chosen radial points was carried out. In obtaining the large number of additional points for the detailing, and in making a junction with the sheet No. 5695 to the north it was found that a large discrepancy existed in the very northeastern section of this sheet. The radial plot was entirely re-run for sheets 5692, 5695, and 5698, and the error adjusted between the strong control on sheets 5692 and 5698.

#### SCALE:

The scale of this sheet is 1:10,000 with a scale factor of 0.955; making the true scale 1:10,471.

#### DETAILING:

The area within the tracing limits was well covered by the photographs except the shore-line from Steel Tower No. 13 to Swan Point, which was outside the limit of good detailing on the photographs. However, this part of the shore-line was covered by map drawing sheet No. 5427, done in 1935 from a single flight of five-lens photographs extending from Swan Point northward along the coast. All detail covered by this previous sheet was compared with that obtained from the nine-lens photographs.

An attempt was made to show all buildings, except sheds and small outbuildings on farms, and in the village of Rock Hall, where only the schools, churches, and post-office were shown.

At Rock Hall Harbor, new stone breakwaters have been constructed since the photographs were taken. No surveys of the completed work were available, and the U.S. Engineers said that the map of the project which they furnished us might be considerably in error as to the length of the breakwaters. The location of these breakwaters on the map drawing was obtained by taking fixes off the outer ends by sextant angles, and by tying the shore ends in to objects discernable on the photographs.

*breakwater  
not shown, probably in 1939  
1939*

#### COMPARISON WITH PREVIOUS MAP DRAWING 5427:

For the most part, the detail agrees well with that on the old map drawing. The only differences are along the southeastern part of the old sheet, where, according to the descriptive report, the pictures were blurred, and in some marsh areas where the interpretation of the high water line was different. One of the two wrecks shown near the abandoned ferry slip at Gratitude on the previous map drawing has been removed.

JUNCTIONS:

This sheet joins the following Map Drawings;

T-5695 to the north  
T-5699 to the east  
T-5701 to the south

The radial points common to this sheet and sheet No. T-5695 were compared for agreement as they were located in preparation for the detailing. After the radial plot was re-run the points checked very well. Only the shore-line has been put on T-5695 as yet, and a satisfactory junction was made with this sheet. Sheets T-5699 and T-5701 have not been touched.

COMPARISON WITH CHARTS 548 and 1226:

As nearly as could be ascertained, the shoreline agrees with that on chart 548 and 1226. Due to the difference in scale, no accurate comparison can be made.

One road shown on chart No. 548 is no longer of sufficient importance for charting. It is the section which runs from south of Deep Landing along the marsh area north of Windmill Point, to Rock Hall Harbor.

*Retained on Ch. 548.  
Fam.*

NAMES:

Geographic names shown on this sheet are listed on form M 234, accompanying this report.

LANDMARKS:

The elevated water tank at Rock Hall is a recoverable topographic station and a very good landmark. It is listed on form No. 567, "Landmarks for Charts", accompanying this report.

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 radial points, well defined objects along the water front, and well controlled areas. The error of other detail of importance is believed to be not greater than 10 meters.

Approved and forwarded 10/23/39  
*L. W. Swanson*  
L. W. Swanson,  
Chief of Party

Respectfully submitted

*Arthur L. Wardwell*  
Arthur L. Wardwell  
Aid, U.S.C. & G. Survey

Oct. 12, 1939

SEXTANT FIXES FOR LOCATING BREAKWATERS  
AT ROCK HALL HARBOR:

( S.E. end of northerly breakwater )

Objects:	Angles
Huntingfield Bank Tower	
Rock Hall Water Tank	108° 08'
W. gable, old ferry bldg.	111° 06'

Check angle

Huntingfield Bank Tower	
N. W. corner, County wharf	101° 22'
Rock Hall Water Tank	
Shore end of breakwater	105° 50'

(West end of southerly breakwater)

Objects:	Angles:
Huntingfield Bank Tower	
Rock Hall Water Tank	114° 53'
W. gable, old ferry bldg.	107° 42'

Check angle:

Huntingfield Bank Tower	
N.W. corner, County wharf	114° 05'
Shore end of breakwater	
Rock Hall Water Tank	45° 12'

Note: The H.W.L. at ends of breakwaters is about 3 meters outside of the points located by the above fixes.



# GEOGRAPHIC NAMES

Survey No. T - 5698

Name on Survey	On Chart No. 548	On Chart No. 1226	On previous survey No. T-2291	On U. S. quadrangle Maps	From local information	Kent County Map	On local Maps	P. O. Guide or Map	Atlas of Kent & Wayne Counties, 1877	U. S. Light List	Kent-McNa 114 Map
✓ Langford Creek	✓	✓	⊗	X	⊕	*		+		○	1
✓ Orchard Point	✓	✓	✓	✓	✓	✓					2
✓ East Fork	✓	✓		✓	✓	✓		✓			3
✓ Lovely Cove	✓	✓		✓	✓	✓					4
✓ Cacaway Pt.	✓		⊗	✓	✓	✓		✓			5
✓ Cacaway I.	✓	✓	⊗	✓	✓	✓					6
✓ Horner Cove	✓	✓	⊗	✓	✓	✓					7
✓ West Fork	✓	✓	⊗	✓	✓	✓		✓			8
✓ Long Cove	✓	✓	✓	✓	✓	✓					9
✓ Cedar Pt.	✓	✓	✓	✓	✓	✓					10
✓ Walnut Pt.	✓	✓	✓		✓						11
✓ Sinai Cove	✓	✓	✓	✓		✓					12
✓ Broad Neck	✓	✓		✓	✓	✓					13
✓ Poplar Neck	✓	✓	✓	✓	✓	✓					14
✓ Millstone Pt.	✓	✓	✓	✓	✓	✓					15
✓ Shipyard Creek	✓	✓	✓	✓	✓						16
✓ Shipyard Ldg.	✓		✓	✓	✓	✓					17
✓ Fox Pt.	✓	✓	✓	✓	✓	✓					18
✓ Bungay Creek	✓	✓	✓	✓		✓					19
✓ Whale Pt.	✓	✓	✓	✓	✓	✓					20
✓ Pastor Pt.	✓		✓	✓		✓					21
✓ Graveyard Cove.	✓	✓	✓		✓						22
✓ Eagle Pt.	✓	✓	✓	✓	✓	✓					23
✓ Island Pt.	✓	✓	✓	✓	✓	✓					24
✓ Davis Creek	✓	✓	✓	✓	✓	✓		✓			25
✓ Piney Neck	✓	✓	✓	✓	✓	✓		✓			26
✓ Gray's Inn Creek	✓	✓	✓	✓	✓	✓		✓			27

	Remarks	Decisions
1	⊙, + called "Lankford Bay" λ, ⊕, *, ⊙ called "Langford Bay"	390761 U.S.G.B.
2		391761
3		"
4		"
5	⊗ spelled "Cacawa Pt. "	" U.S.G.B.
6	⊗ Spelled "Cacawa I."	"
7	⊗ called "Hornors Cove"	"
8	⊗ called "West <sup>Arm</sup> <del>Rock</del> of Lankford Creek"	"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26	<u>Grays</u>	"
27		390762

# GEOGRAPHIC NAMES

Survey No. T - 5698

GEOGRAPHIC NAMES		Survey No. T - 5698		On Chart No. 540		On Chart No. 1226		On previous survey No. T - 2291		On U. S. quadrangle Maps		From local information		Kent County Map		On local Maps		P. O. Guide or Map		Atlas of Kent & Queen Anne's Counties		Prince Georges 1921		U. S. Light List		Kent County Map	
Name on Survey		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
✓	Herrington Creek	✓	✓	✓	✓	✓																					1
✓	Eastern Neck	✓	✓		✓	✓		✓																			2
✓	Huntingfield Pt.	✓	✓		✓	✓																					3
✓	Huntingfield Creek	✓	✓		✓	✓																					4
✓	Deadman Pt.	✓	✓																								5
✓	Rock Hall Harbor	✓	✓		X	✓		*																			6
✓	Windmill Pt.	✓	✓		✓	✓																					7
✓	Little Neck I.	✓	✓		✓	✓																					8
✓	Deep Landing	✓	✓		X	✓		*																			9
✓	The Haven	✓	✓		✓	✓																					10
✓	Gratitude	✓	✓		✓			✓																			11
✓	Swan Point	✓	✓		✓	✓		✓																			12
✓	Tavern Creek	✓	✓		✓	✓																					13
✓	Swan Creek	✓	✓		✓	✓																					14
✓	Rock Hall	✓	✓	⊗	X	✓																					15
✓	Crosby	✓	✓		✓	✓																					16
✓	Edesville				✓	✓		✓																			17
✓	Chesapeake Bay	✓	✓																								18
																											19
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																											22
																											23
																											24
																											25
																											26
																											27

## Remarks

## Decisions

1		391762
2		390762
3		391762
4		"
5		"
6	X and * called "Rock Hall Creek"	" U.S.G.B
7		"
8		"
9	X and * called "Rock Hall Landing"	"
10		"
11		" USGB
12		"
13		"
14		"
15	⊗ and X called "Rockhall"	" U.S.G.B
16		391761
17		391762
18		U.S.G.B.
19		
20		
21	Names underlined in red approved by L.H.B. on 8/21/41	
22		
23		
24		
25		
26		
27		

REVIEW OF AIR PHOTO COMPILATION NO. T-5698

Chief of Party: L. W. Swanson

Compiled by: A. L. Wardwell

Project: H. T. 215

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, ~~c~~, d, e, g and i; 26; 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 ~~f, g~~)  
The only ground surveys made to supplement this work, was the location by sextant of the breakwaters at Rock Hall Harbor. This is discussed in the Descriptive Report.
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)  
There is a preliminary blue print of the breakwaters at ~~XXXXXX~~ Rock Hall Harbor. But they do not show the breakwater as it was completed. This sheet shows the breakwater correct.
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.  
There were no contemporary planetable 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, h, i)  
Note page 2 Descriptive Report, under DETAILING.
7. 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 ~~Oceanic~~ pertaining to them is satisfactory. (Par. 38, 37, 38, 39, 40, 41)
  9. Recoverable objects have been located and described on Form 524 ~~in accordance with circular 30, 1933, and other orders of 1933, and a plan of July 1, 1934.~~  
The overlay sheet of this map drawing.
  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~~)
- NONE
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)  
The adjoining sheets have not been detailed.
  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; October 23, 1939.

  
Chief of Party

19. Remarks after review in office:

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DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TO BE CHARTED }  
TO BE DELETED }

**STRIKE OUT ONE**

## LANDMARKS FOR CHARTS

Baltimore, Md.

Oct. 17. 1

have

I recommend that the following objects which charted on ~~(~~24/02/2007~~)~~ the charts indicated.

The positions given have been checked after listing.

have been inspected from seaward to determine their value as landmarks, be

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.



## DIVISION OF CHARTS

### SURVEYS SECTION

#### Review of Air Photographic Survey T-5698

##### Graphic Control Surveys

There are no graphic control surveys in the area covered by T-5698.

##### Previous Topographic Surveys

Comparison of T-5698 with the previous topographic surveys listed below shows good agreement in general considering the time that has passed since these surveys were made.

There have been numerous changes in interior detail and some changes in shore line especially in the marsh areas. T-5698 is complete and adequate to supersede the portions of these surveys which it covers except as noted.

T-187	-	1:20,000	-	1845			
T-199	-	1:20,000	-	1846			
T-201	-	1:20,000	-	1846	(except for contours)		
T-2241	-	1:10,000	-	1896	"	"	"
T-2291	-	1:20,000	-	1897	"	"	"

T-5427 - 1:10,000 - 1933

T-5427 is an air photo survey. Comparison with T-5698 showed good agreement except for some minor shore line changes. One landmark and three triangulation stations shown as T-5427 were added to T-5698 in this office as there was no evidence to show that they had ceased to exist since T-5427 was compiled. T-5698 is complete and adequate to supersede that portion of T-5427 which it covers. For comparison made by field party, see Page 2 of the Descriptive Report for T-5698.

##### Contemporary Hydrographic Surveys

There are no contemporary hydrographic surveys in this area. Surveys will probably be made during 1940. Hydrographic signals for the 1940 surveys have been located on T-5698. These will remain on the celluloid but will not be shown on printed copies.

Comparison with Charts 548 (39-4/21), 549 (39-8/10), 1226  
(39-9/8)

Comparison of T-5698 with the areas of the above listed charts which it covers shows numerous changes in culture and some changes in shore line especially in the areas covered by marsh.

Landmarks in this area are listed in Letters 403 (1935) and 656 (1939). These are all shown on T-5698. Complete inspection for landmarks will be made when new hydrographic surveys are made in this area. Fixed aids to navigation have been shown on T-5698.

For comparison made by field party, see Page 3 of the descriptive report for T-5698.

Recoverable Topographic Stations

There are no Form 524 descriptions for recoverable topographic stations included with T-5698.

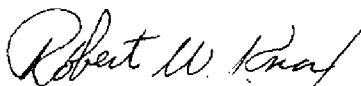
General

The compilation of details and descriptive report for T-5698 are complete. High water line and marsh lines have been retouched to some extent in order to make the change from fast land to marsh more distinct.


Reviewed in office by - H. D. Reed, Jr., 11-30-39


Inspected by - B. G. Jones, 11/30/39

Examined and approved:

  
Chief, Surveys Section

  
Chief, Division of Charts

  
Chief, Section of ~~Hydro~~<sup>Top</sup>graphy

  
Chief, Division of Coastal  
Surveys