

5323

U. S. COAST & GEODETIC SURVEY  
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Form 504  
Ed. June, 1928  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
R. S. Patton, Director

State: Maryland

DESCRIPTIVE REPORT

Air Photo Topographic } Sheet No. T-5323.  
~~Photogrammetric~~

LOCALITY

Chesapeake Bay

Kent Island (Southern Part)

1935

CHIEF OF PARTY

0° S° Reading.

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. \_\_\_\_\_

REGISTER NO. T-5323

State Maryland \_\_\_\_\_

General locality Chesapeake Bay \_\_\_\_\_

Locality Kent Island (Southern Part) \_\_\_\_\_

Scale: 10,000 \_\_\_\_\_ Date of ~~survey~~ photographs November 28, 1933 \_\_\_\_\_

Date of compilation July 30, 1934 \_\_\_\_\_  
Vessel Army Air Corps F-1A Airplane March 12, 1935 \_\_\_\_\_

Chief of party O. S. Reading \_\_\_\_\_

Photographs plotted by D. K. Albertson, L. A. McGann. \_\_\_\_\_  
~~Surveyed by~~ \_\_\_\_\_

Inked by D. K. Albertson, L. A. McGann. March 8, 1935. \_\_\_\_\_

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

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

Instructions dated \_\_\_\_\_, 19 \_\_\_\_\_

Remarks: Compilation of Aerial Photographs No. 226 to 245 Incl. \_\_\_\_\_

Reduced to scale and printed by photo-lithographic process. \_\_\_\_\_

...

Polyconic projection by:	D. K. Albertson	May 9, 1934.
Projection verified by:	Henry Olsen	May 10, 1934.
Control plotted by:	D. K. Albertson	May 10, 1934.
Control verified by:	Henry Olsen	May 11, 1934.

History of Compilation T-5323.

This sheet was begun in the Washington office by D. K. Albertson on May 9, 1934. No field inspection was available at this time and after the original compilation was finished there was much uncertainty regarding topographic detail difficult to interpret from an office inspection alone. In addition to this defect, the plot was very weak on account of the lack of sufficient control to make a good radial plot.

During February 1935 a field inspection was made for the purpose of recovering additional control stations, delineating the highwater line, and interpreting duck blinds, small islands, etc. This inspection has been incorporated in the revised compilation begun on March 1, 1935, using the original compilation as a base, making changes and revisions where necessary.

The following stations are the additional control points identified by the field inspection party. (See letter attached.)

*Correction for N.A. 1927 Datum.*

*Lat. -11.0 meters  
Long. + 4.0 meters.*

Station	Geographic Position	N.A. Datum	N.A. '27 Datum	Scale Factor x 0.941
JACK 1933	38° 52' . 36".913 76° 20' . 03".926	1138.2 94.6	1127.2 98.6	1061 (680) 93
MATTA, 1932	38° 53' . 42".836 76° 21' . 58".104	1320.9 1400.2	1309.9 1404.2	1233 (508) 1321 (40)
PHOTO PT. A 1935	38° 51' . 21".892 76° 22' . 31".051	675.0 748.7	664.0 752.7	625(1116) 708 (653)
TOP, 1909	38° 55' . 16".758 76° 19' . 05".781	516.8 139.3	505.8 143.3	476(1265) 135
BELL, 1932	38° 50' . 11".716 76° 22' . 08".893	361.3 214.5	350.3 218.5	329(1412) 205

Stations plotted by: *Louise A. Mutsaers* March 4, 1935.  
checked by: *Douglas H. Benson* March 4, 1935.

Photo Point A would not fit the plot. It is evidently in error. Station TOP, 1909, is shown as a recoverable <sup>topographic station</sup> ~~point~~ since the building where it is located has been rebuilt since it was established. Station BELL, 1933, could not be identified on the photos, but it is shown on the compilation.

Descriptive Report to Accompany

Air Photo Compilation No. T-5323

1. General Information:

(a) This sheet is compilation of five lens aerial photographs taken by the Army Air Corps from an altitude of approximately 5000 feet. *Scale of compilation, 1:10,000. Scale factor 0.941.*

(b) Statistics

11 square statute miles of area  
33 statute miles of shoreline including creeks.

(c) No general report for the project is available. The land is very flat, high for the most part, devoted to cultivation. The area is the lower end of Kent Island on the Eastern Shore of Chesapeake Bay.

(d) Photographs No. 226 to No. 245 inclusive cover the area.

<u>Photo No.</u>	<u>Date</u>	<u>Time</u>	<u>Stage of Tide</u>
226-245	Nov. 28, 1933	10:35 A.M.	Low 7:02 A.M. High 1:45 P.M.

Mean range of tide here is 1.1 feet.

2. Controls:

This consists of second-order triangulation in 1932 by J. A. Bond; <sup>and Le Collier</sup> in 1933 by E. R. McCarthy; first-order triangulation in 1934 by J. Bowie. Control is on the North American 1927 datum. Stations TAN, 1933, Sec. 1932, and LAG, 1932, appearing on T-4691 and T-4771 are lost, not shown on this compilation.

3. Compilation:

(a) Only the radial line method of plotting was used.

(b) With regard to uncertainty in plotting the following places are considered weak: (1) The east shore of Bojts Neck, (2) Tanners Creek, (3) Shoreline between Triangulation Station BANK, 1933, and Triangulation Station JACK, 1933. This shoreline was transferred from T-4771 on account of this area being too far removed from the center line of the photographs.

(c) Concerning the H.W. line, the field inspection notes were not complete. With the exception of the western shore of Kent Island and the small islands on the west shore in the vicinity of latitude 38° 54' no shoreline was delineated on the field photographs by the inspection party. The manner in which the duckblinds as shown on the compilation

are represented is purely arbitrary. All other symbols are standard, approved by the Board of Surveys and Maps.

(d) As stated above under 3(b), the H.W. line between Triangulation BANK, 1933, and Triangulation JACK, 1933, was obtained from T-4771.

(e) Conflicting Names:

The name of Tanners Creek as approved and shown on the compilation is called Long Point Creek on the U.S. G.S. Quadrangle "Annapolis." There are no other conflicting names.

4. Comparison with Other Surveys:

(a) Satisfactory junction was made with compilation, Sheet No. T-5423 on the north. There are no other adjoining compilations.

T-4771 (1933). Numerous detailed discrepancies will be noted between T-4771 and this compilation.

(1) The largest discrepancy was found along the course of Tanners Creek where differences range from 0 to 35 meters. It is believed that the compilation is more nearly correct here. (A dead end traverse was run up this Creek by field party on T-4771.)

(2) The delineation of the bluff and extent of the marsh on the west bank of Tanners Creek at its mouth.

(3) A small island in the cove east of Triangulation Station BAR, 1932, does not appear on T-4771.

(4) A shoreline discrepancy south of Triangulation Station BANK, 1933.

(5) Small pond in position latitude 38° 50', longitude 76° 22' incorrectly shown on T-4771.

The following described topographic stations were transferred to the compilation from T-4771 under which the descriptions are filed:

-	BARN CUPOLA (d)	ERG (d)
	HEL (d)	DIG (d)
	RAY (d)	GUD (d)
	u/e. (d)	MIS (d)

Transferred by L. A. McGann *LAM*  
Checked by D. H. Benson *D.H.* March 11, 1935.

The following station was relocated on this compilation under which the description is now filed.

PAN (d)  
38° 51' 1567 m.  
76° 20' 1418 m.

05 The following station was not transferred to the compilation ~~for its position~~ has been destroyed. The description card is marked as being void.

CAN (d)

T-4691 (1932). There is fair agreement between T-4691 and this compilation. See review for detailed comparison. The small piers at *the mouth of* Bloody Point Creek have been deleted on account of removal since the photos were taken.

5. Recommendations for Further Surveys:

The compilation is believed to have a probable error of 5 to 8 meters *in positions of well defined detail; 8 to 10 meters in positions not well defined,*

Respectfully submitted,

*Leonard A. McGann*  
Leonard A. McGann.

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REPORT OF FIELD INSPECTION AND REVISION

To Accompany

AIR PHOTO COMPILATION NO. T5323

Maryland, Chesapeake Bay, Kent Island, (Southern Part)

- - -

FIELD INSPECTION:

This sheet was inspected in the field by Ensign James C. Tison Jr. in October 1934 in order to correct and verify certain doubtful data which was shown on the compilation. The photolithographic print of T5323 was taken into the field together with the field photographs in order to verify or disprove the existence of various beacons, islands, position of highwater line, and topographic symbols.

CORRECTIONS: *This inspection covered only a small portion of this sheet; was made on a photolithographic print of T-5323.*

Bloody Point:

The position of the name Bloody Point was not changed because this name refers to the point of land west of the mouth of Bloody Point Creek.

Beacons:

The small black circles east of Kent Pt. between latitudes 38°-50' and 38°-51' which are shown as beacons on the photolithographic prints were actually found to be duck blinds. The name "Beacon" and the circles were removed from the celluloid sheet.

Islands:

The shoreline of the point of land just north of triangulation station "SHIP 1933" and the island north of this point has been changed on the celluloid to conform to the field inspection. Marsh symbols have also been changed.

The small islet shown on the photolithographic print in Latitude 38°-53'-1610 m., Longitude 76°-20'-150 m. was found to be incorrect. Its correct shape and position are shown on the celluloid sheet.

The shoreline of the island in Latitude 38°-54'-00 m., Longitude 76°-20'-80 m. as shown on the photolithographic print has been changed. The correct location of the high-water line is shown on the celluloid sheet.

The island shown on the photolithographic print in Latitude 38°-54'-950 m., Longitude 76°-19'-1030 m. is actually in existence and its correct position is shown on the celluloid sheet. ✓



DESCRIPTIVE REPORT

SHEET NO. T5323

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The islet shown on the photolithographic print in Latitude 38°-55'-00 m., Longitude 76°-19'-960 m. is actually in existence and the correct position of this islet is shown on the celluloid sheet.

The island shown on photolithographic print in Latitude 38°-53'-1680 m., Longitude 76°-18'-550 m. has the tree symbol shown. This island is marshy and the correct topographic symbol is shown on the celluloid sheet.

The islet shown on the photolithographic print in Latitude 38°-54'-60 m., Longitude 76°-18'-150 m. does not exist and the islet has been taken off the celluloid sheet. The same applies to the islet shown in Latitude 38°-54'-1120 m., Longitude 76°-19'-700 m.

Roads:

Air Photo Compilation No. T5323 was compiled in the Washington Office and the adjoining sheet, Field No. 5423 was compiled in Baltimore, Md. These celluloid sheets are made up to the same scale and join at the parallel 38°-56'.

In joining the two sheets it was found that the roads were not in agreement at the junction.

A radial line plot was re-run on Sheet No. T5323 and found to agree with the plot accomplished in the Washington Office. Sheet No. T5323 and Sheet Field No. 5423 were joined and the radial plot of No. T5323 extended across the junction into Sheet No. 5423. In extending the plot from Sheet No. T5323 to Sheet No. 5423, advantage was taken of the additional control namely, triangulation stations HERE 1909, COFFEE 1909, LIVER 1909, STEVE 1909, GREEK 1909, TUXON 1909 and BENTON 1934. The same procedure was accomplished by running the radial plot of Sheet No. 5423 across the junction and into Sheet No. T5323. The radial plots were found to be in agreement.

Upon closer examination it was found that the roads on Sheet No. T5323 did not conform to the location of the radial points. These roads were erased from Sheet No. T5323 and relocated in the limits given below: From Latitude 38°-55' to Latitude 38°-56' and from Longitude 76°-19' to Longitude 76°-22'. No changes in roads were made on Sheet No. T5323 south of parallel 38°-55'.

The two sheets now join satisfactorily at Latitude 38°-56'.

ADDITIONS:

Triangulation station BENTON 1934 has been added to Sheet No. T5323. This is a first order station located by Lieut. (j.g.) John Bowie in 1934.

DESCRIPTIVE REPORT

SHEET NO. T5323

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RECOVERABLE HYDROGRAPHIC AND TOPOGRAPHIC STATIONS:

The following described topographic stations fall within the area of Sheet No. T5323.

\* They are not shown on the celluloid sheet because their plotted positions do not agree with the positions of the buildings on Sheet No. T5323. These stations were located by planetable on Topographic Sheet, Register No. 4771.

Name	Position, N.A. Datum			N.A. 1927 Datum m.	x Scale Factor m.
	°	'	m.		
Barn Cupola	38	50	839	828	781
	76	22	510	514	485
Can <i>Sta. destroyed. Not Transferred</i>	38	51	1600	1589	1498
	76	20	1377	1381	1302
Cud	38	52	1281	1270	1198
	76	20	89	93	88
Dig	38	51	457	446	421
	76	21	1187	1191	1123
Erg	38	52	1750	1739	1640
	76	20	209	213	201
Hel	38	52	132	121	114
	76	20	264	268	253
Mis	38	51	885	874	824
	76	21	441	445	420
Pan	38	51	<del>1572</del>	<del>1561</del> 1567	1472
	76	20	<del>1412</del>	<del>1416</del> 1418	1335
Ray	38	52	72	61	58
	76	20	346	350	330
Ule	38	51	1166	1155	1089
	76	20	250	254	240

\* Disagreements between T-4771 and the compilation have been rectified and all of the above stations are shown on T-5323 except Sta. CAN, which has been destroyed see page 4, 4.9.6.

Respectfully submitted,

*J.C. Partington*  
J.C. Partington  
Jr. H. & G.E.  
Chief of Party

## REVIEW OF AIR PHOTO COMPILATION NO.

Chief of Party: *O. S. Reading*Compiled by: *R.K. Albutson*  
*L.A. McLean*

Project:

Instructions dated:

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 d,e)
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 transmitted*
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.
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)
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." 11-57

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) *See page 4 r.5 of Descriptive Report for discussion*
10. ✓ A list of landmarks was <sup>not</sup> 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) *No bridges*
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 66k)
13. ✓ The geographic datum of the compilation is *N.A. 1927* and the reference station is correctly noted. *unadjusted*
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. *Tree symbol too bold*
- 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, 48)

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

17. Remarks:

*This sheet was compiled without adequate field inspection and by an inexperienced man. It has been reworked after field inspection by an experienced man and all errors of appreciable for charting have been corrected. It is therefore*

18. Examined and approved;

*recommended for approval although it is not equal in appearance and ~~in~~ accuracy of detail to the standard that can be obtained under better procedure*

*O. S. Reading*  
Chief of Party

19. Remarks after review in office:

*While this compilation is satisfactory for charting it is not of sufficient accuracy for a base map.*

Reviewed in office by:

*Frank G. Eschme*  
*B. G. Jones*

*May 16, 1935*

Examined and approved:

*K. T. Adams*

Asst Chief, Section of Field Records

*L. O. Colburn*

Chief, Division of Charts

*F. S. Borden*

Chief, Section of Field Work

*Glude*

Chief, Division of Hydrography and Topography.

## Review of Compilation T-5323

As mentioned in the Compiler's Report, this sheet was first compiled without field inspection and then submitted to a field party for corrections. The field party recovered additional control stations and cleared up several doubtful points on interpretation. The field party's report is included in the Descriptive Report.

### Comparison with Other Surveys:

T-4771 (1933) 1:10,000. This comparison is covered in the Compiler's Report. Each case of discrepancy was examined and the compilation is considered correct.

T-4691 (1932) 1:20,000.

1. The bridge across the mouth of Bloody Point Creek has been destroyed.
2. The western H. W. L. of Kent Island extending the length of the sheet disagrees in varying amounts on the two sheets. Storms in 1933 washed the shoreline in many places, destroying several triangulation stations. For this reason and since this shoreline was inspected the compilation is considered correct.
3. The shapes of the several creeks on the west side of the island are different in details on the two surveys. An examination of the photographs clearly indicates that the compilation is correct.
4. The island mentioned in paragraph 3, section 4, page <sup>4</sup>~~2~~ of the Descriptive Report is not shown on T-4691, nor is the one just opposite this cove, which is shown on T-4771. Field inspection verified the existence of these islands.

T-2294 (1915) 1:20,000. Only a visual comparison was made with this

survey. Considering the topography not covered by T-4691 and T-4771 (eastern shore, north of  $38^{\circ} 53'$ ) the following was noted:

1. The island at  $38^{\circ} 54'$ ,  $76^{\circ} 20'$  has changed shape and reduced in size. A small island has been developed just east of this one.

2. At  $38^{\circ} 52 \frac{3}{4}'$ ,  $76^{\circ} 20 \frac{1}{4}'$  the narrow strip of land opposite the mouth of the creek flowing southeast has been broken thru forming an island. Another small island has been formed just north of this island.

3. The island just off the southwestern tip of Batts Neck has disappeared.

*Comparison with Chart 1225*

*The four landmarks (Kent Island Speed Trial Range) shown on the chart are carried on this completion.*

*The differences between the chart & this completion are covered in the comparisons with the Topographic survey. Attention is called to the island changes mentioned under the comparison with T-2294.*

*Frank G. Eshime*

*May 16, 1935*

GEOGRAPHIC NAMES

Date March 9, 1935

Survey No. T-5323

Chart No. 77, 1225

Diagram No. 727

Approved by the Division of Geographic Names, Department of Interior. \*

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Kent Island</u>	do 1225			
	<u>Kent Point</u>	do			
	<u>Long Point</u>	do			
	<u>Bloody Point</u>	do	U.S.G.S.		
	<u>Matka pex</u>	do			
	<u>Shipping Creek</u>	do			
	<u>Batts Neck</u>	do	BATS NECK ON U.S.G.S. QUAD.		
	<u>Eastern Bay</u>	do			
	<u>Chesapeake Bay</u>	do			
	<u>Bloody Point Creek</u>	none		USGS. Quad. "Annapolis"	
	<u>Carter Creek</u>	none		USGS.	
	<u>Tolson Creek</u>	none		USGS.	
	<u>Tanners Creek</u>	none		ANNAPOLIS QUAD. Long Point Creek on U.S.G.S.	
	<u>Craney Creek</u>	" U.S.G.S.		Tanners Creek on T-4771.	
<p>Names underlined approved. Others awaiting decision Dec. 6 1935</p> <p>Hogues</p>					