5706

DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR **DESCRIPTIVE REPORT** Hydrographics Sheet No. T-5706 State. LOCALITY Prospect Bay & Wye River

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Form 504 Rev. Dec. 1933

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Bay

Chesapeake Bay Eastern

and Vicinity

May 1, 1937

July 8, 1937

193 41

CHIEF OF PARTY

Lieut. L.W. Swanson

U. S. GOVERNMENT PRINTING OFFICE: 1934

applied to Reconstruction Charl 548 - any 6,1941 - greealher

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-5706

REGISTER NO.

State MARYLAND
General locality Chesapeake Bay - Eastern Bay
Locality Prospect Bay & Wye River and Vicinity
Photographs Scale 1:10,000 Date of **Source May 1 & July 8 , 19 37
Wosselax Air Photographic Survey Party No. 2
Chief of party Lieut. L.W.Swanson (j.g.) Field Inspection C.Russell, J.Jones and D.Jones
Surveyed by Radial Plot J. Jones Revised Radial Plot W.E. Schmidt & J. Steinberg
Inked by J.Steinberg & J.Jones
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line interval feet
Instructions dated May 13 , 1938 Supplemental Instructions in letter from
Remarks: Director dated August 28, 1939.
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DATA RECORD T-5706.

PHOTOGRAPHS -

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REFERENCE STATION

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Longitude Maryland State (Lamber)						1021 051 03		Adju	
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DESCRIPTIVE REPORT TO ACCOMPANY AIR PHOTOGRAPHIC SURVEY SHEET NO. T-5706 STATE OF MARYLAND CHESAPEAKE BAY PROSPECT BAY & WYE RIVER

DATE OF THIS REPORT...... June 26,1941.

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

W.C.Russell,

The field inspection for this sheet was made by Don A. Jones, Surveyor, in the fall of 1939 and by J.N.Jones, Jr. H. & G.E., in the spring of 1940.

The geographic name investigation was done by Lieut. J.N.Jones during March, 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 three U.S.Coast & Geodetic Survey and ten M.S.F.S. stations. These stations are all within the limits of the sheet proper and are listed as follows:

M.S.F.S. Stations

U.S. Coast & Geodetic Survey

Green, 1909. Middle Chimney Green House, 1932
Bee, 1909 Whaley, 1934
Gray, 1932, 1938

Whale, 1909
Whale, 1909
Orb, 1909

Three U.S. Coast & Geodetic Survey stations which do not fall within the limits of the sheet proper that were used are listed as follows:

Scout, 1938 Pink, 1932 Dodd, 1934

June, 1909 —

RADIAL PLOT:

For the first radial plot refer to the descriptive report of sheet No. T-5705.

REVISED RADIAL PLOT:

Before detailing this sheet a revised radial plot was run by J.Steinberg and W.E.Schmidt in April 1941. To help in controlling the sheet more strongly, dog ears were attached to the north and east sides for photograph centers 1358,1668,1669,1670,1671 and also for control stations Queenstown Water Tank,1938 and Light- Outer beacon,1938.

In running this revised plot, due to the uncertain pricking of the triangulation stations on some photographs in the southern part of this sheet, it was necessary to secure a field inspection station in this area which could be used in orienting the photographs.

With these additional photographs and control stations new secondary control points were established by radial intersections directly on the smooth sheet. These new radial points were established by first laying the photographs having the strongest control and also holding the photographs to strong established radial points in the original plot. These new radial control points are shown with a purple colored double circle.

On the photographs that lacked triangulation stations, the flight lines were first checked and then held in conjunction with any previous established radial control points to orient them.

During the field inspection of triangulation stations, the method employed to prick the station on the photograph, by identifying several object on the ground that can be seen on a photograph and measuring to the control station from them and also a measurement between two of the objects across the station to determine a scale check, has been found to be insufficient for radial control, unless these objects can be identified on all the photographs to be used in the radial plot.

It is the general opinion that in order to save time in compiling new sheets more accurately, that future field inspection of control stations be done by establishing a field inspection station for each triangulation station except, where there is a definite certainty that the triangulation station can be pricked on all the photographs to be used in the plot.

It should be noted that due to the small overlap between flights, the northern end of the Wye River is weak, but it is believed by the compiler to be accurate within one millimeter.

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:

No recoverable topographic stations appear on this sheet.

DETAIL:

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

Only the centerlines of roads have shown on this sheet, except a few

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

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

Trails have been labeled "s.d.l." (single dashed line) or indicated 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 not on the photographs but indicated on the field prints are shown on this sheet.

Wooded areas have been outlined and labeled.

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

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

The ferry shown on chart No. 1225 between Cedar Point and Drum Point has been discontinued and has not been shown on this sheet.

· COMPARISON WITH PREVIOUS SURVEYS:

The shoreline is in fair agreement with this complilation sheet except for the following differences.

38° 58' 15" shoreline has receded to 381, 581 24" to Lat. From Lat. Long. 76° 13' 09" a max. of 2 mm. 76° 12* 24" No inland features are shown on t-4746a.

The shoreline is in fair agreement with this complitation T-2291: sheet except for the following differences.

38° 58' 27" shoreline has receded to 38° 581 46" to Lat. From Lat. Long. 76° 12' 02" a max. of 5 mm. 76° 11' 31" Long.

38° 58' 48" shoreline has receded to 38° 591 0011 to Lat. From Lat. Long. 76° 11' 20" a max. of 3 mm. 76° 11' 15" All inland features that are common to each other are in fair agreement.

A comparison of the shore line with map drawing T-2524, compiled in 1900-1901, reveals numerous differences of from 1 to 3 mm. except on the Prospect Bay shore, where the shore line has receded in places from . 1 to 13 mm.

COMPARISON WITH PREVIOUS SURVEYS (con'd.)

The shore line from Brian Point to Hog Hole Creek has receded to a Max. of 10 mm.

The small island shown on sheet T=2524 at latitude 38° 53° 24" longitude 76° 12° 22" has now disappeared.

The inlets from Quarter Cove on sheet T-2524 are approximately from 5 to 10 mm. too far east. It should be noted that all common inland features in this vicinity are in good agreement.

All shore line not subject to the action of severe storms have been found to be in fairly good agreement.

All inland features that are common to both surveys are generally in fair agreement.

JUNCTIONS:

On the North: (T-5703) The junction with this sheet was found to be in good agreement.

On the East: (T-5707) The junction with this sheet was found to be in good agreement.

(T-5710) The junction with this sheetbis in good agreement except for the following discrepancies. At latitude 38° 53' 33" long-itude 76° 08' 00" the d.f.l. should be d.d.l. At latitude 38° 53' 05" longitude 76° 08' 00" the fence to be extended as shown on sheet T-5706. At latitude 38° 53' 34" longitude 76° 08' 00" the fence to be extended to building as shown on sheet T-5706. At latitude 38° 53' 40" longitude 76° 08' 00" the fence to be extended as shown on sheet T-5706. At latitude 38° 53' 42" longitude 76° 08' 00" the s.d.l. should be shown as a d.d.l.

On the South: (T-5709) The junction is in good agreement with this sheet except for the following disorepancies. At latitude 38°52' 30" longitude 76°08' 06" the deh. should be extended to building at latitude 38°52' 12" longitude 76°08' 17". At latitude 38°52' 50" longitude 76°08' 27" the deh. should be extended as shown on sheet T-5706.

On the west: (T-5705) The junction is in good agreement with this sheet.

GEOGRAPHIC NAMES:

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

LANDMARKS:

It is recommended by this party that the landmarks to be charted be submitted by the hydrographic party charting this area.

RECOMMENDATION FOR FUTURE SURVEYS:

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

RECOMMENDATION FOR FUTURE SURVEYS (con't.)

The probable error of radial points and of well defined objects along the shore line is not greater than 0.5 mm. The error of inland radial points and detail of importance is not greater than lmm.

Respectfully submitted,

Joseph Steinberg

Senior Photogrammetric Aid (field)

Approved:

Lieut. L.W.Swanson(j.g.) Chief of Party

1		390762
2		389762
3	3	388 763
4	# called Big Wye River % called Front Wye River	388762 U.S.G.B
5		388762
6		389762
7		389 762
8	\$Spelled "Hoghole Cr.", & also spelled "Hoghole Cr."	389761
9	spelled "Jacksons Cr." # also "Jacksons Cr."	389762
_10		389762
11		389 761
12		389761
13_	¢ spelled "De Courcy I." x* spelled "Coursey I."	389 761
14	@ called "Back Wye River"	38976!
_15		38876
16	% also known as "Carpenters Cove"	389761
17		388 761
_18	*called "Front Wye kiver" & called "Back Wye River"	388761 U.S.G.B.
_19		38876[
20		388761
21		389 761
22		389762 6.5.6.8
23	and rejects Cedar Pt.	Apply Drum Pt. as
_24	# " This point is shown in error on the U.S.G.S.\ quadrangle and the Md.State Roads Comm.highway	388741 U.S. G.B
_ 25	map. The position as charted on sheet T-5706 was obtained from people in the vicinity of this point and also from the description in special publica-	388761
_26	tion No. 114 on page 367 in the description of triangulation station Ferry, 1909 by C.C. Yates.	388761
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Decisions

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REVIEW OF AIR PHOTO COMPILATION NO. T-5706

Chief of Party: L. W. Swanson

Compiled by: J.N.Jones, Joseph Steinberg.

Project: HT 215

Instructions dated: May 13, 1938

August 28, 1939

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 #; 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)
- 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)

 There were no ground surveys.
- 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 are submitted.
- 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 are no contemporary 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; #; 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."

- 8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 27, 28, 27, 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, 80, and 37)

 Form 524 is not submitted. Objects located for hydrographic purposes are described on the overlay sheet.
- 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)

This party has not recommended the charting of any Landmarks on this Map Drawing. It is suggested that the hydrographic Party make

- such recommendations as seen from the water.
 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)
 There are no bridges over navigable waters on this Map Drwaing.
- 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 64%)
- 13. The geographic datum of the compilation is N. A. 1927 and the reference station is correctly noted.
- Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)

 It should be noted there are some very minor changes to be made to T-5710.
- 15. The drafting is satisfactory and particular attention has been given the following:
 - Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 - 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, 36, 50, 40, 41, 42, 43, 44, 45, 46, 48)

- 16. No additional surveying is recommended at this time.
- 17. Remarks:

18. Examined and approved;

Chief of Party July 1,194

19. Remarks after review in office:

Reviewed in office by:

Examained and approved:

Chief, Section of Field Records

Chief, Section of Field Work

Chief, Division of Charts

Chief, Division of Hydrography and Topography.

DIVISION OF CHARTS SURVEYS SECTION

Review of Air Photographic Survey T-5706 August 22, 1941

Hydrographic Surveys

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

Previous Topographic Surveys

T-5706 has been compared with and is adequate to supersede the sections of the following previous surveys which it covers with the exception of contours shown on T-2524 and T-2291:

T-4746a (1932) 1:10,000 T-2524 (1900-01) 1:20,000 T-2291 (1897) 1:20,000 T-224 (1854) 1:20,000 T-223 (1854) 1:20,000 T-200 (1846) 1:20,000

There have been many changes since these previous surveys were made, the largest being at the mouth of Winchester Creek which has shifted some 250 meters west of its 1897 position.

Comparison with Charts 548 and 1225

The comparisons with survey sheets T-4746(a), T-2524, and T-2291 apply also to charts 548 and 1225. Necessary corrections have been applied to Chart 548 (reconstruction chart) August 6, 1941.

There is a private airfield at lat. 36°55.6°, long. 76°12.2°. This has been reported to the Aeronautical Chart Branch.

A silo landmark at lat. 35°54.7', long. 76°12.2' on chart 1225 cannot be seen on the photographs. This landmark was recommended by the hydrographic survey party in chart letter 343 (1941, which gives a position determined by sextant. As the topographic survey field inspection party did not locate the silo on the photographs, it has not been plotted on T-5706.

Radial Plot

The radial plot for T-5706 and T-5705 was done as a unit and is fully discussed in the Descriptive Reports for those sheets. No complete check of the plot was made in this office, but individual photographs laid under the compilation appeared to check well with the compilation as plotted.

It is noted that tilts were computed and new centers pricked for several photographs, but in no case did the tilt amount to more than 2 degrees. It has been accepted practice to disregard tilts of less than 3 degrees (the allowable limit), as they do not affect radial plots to an appreciable amount where there is enough control to fix the photographs.

The bprobable error of radial points is not greater than 0.5 mm. Except in the northeast corner of the sheet where it is not greater than 1 mm.

Field Inspection and Detailing

The field inspection and detailing of T-5706 are complete

The field inspection located a few new buildings, otherwise the detailing was as of the date of the photographs, May 1 and July 8, 1937

The detailing was very good and no corrections were necessary. Some of the lighter lines had rubbed almost off and were touched up in this office. Ticks were drawn at intersections of the projections, which had also rubbed badly.

Reviewed in office by D. H. Benson, August 22, 1941

Examined and approved: 190

Chief, Surveys Branch

Chief, Div. of Charte

Chief. Topography Section

Chief, Div. of Coastal Surveys