8155

Form 504
Rev. June 1941
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Air Photographic
Plane Table
Hydrographic

Survey No. [illegible]
(Field).

MARYLAND
BOXIRON
QUADRANGLE
N3800-W7515

LOCALITY

Maryland

General locality Chincoteague Bay

Locality Chincoteague Bay

1942

CHIEF OF PARTY

Prof. E. Pouncak

U. S. GOVERNMENT PRINTING OFFICE 815551

February 14, 1945

8155

Form T-1

T8155

DATA RECORD

T-8155

Quadrangle (II):
Box Iron (7½')

Project No. (II):
Project CS-278-D

Field Office:
War Mapping Field Party No.1

Chief of Party: Lieut. Comdr. Wm. D. Patte

Compilation Office:
Baltimore, Maryland

Chief of Party: Fred. L. Peacock

Instructions dated (II III):
March 4, 27, August 13)
June 5, 24, September 4) 1942

Copy filed in Descriptive Report No. T- (VI)

Completed survey received in office: 11/6/42

Reported to Nautical Chart Section: 11/42

Reviewed: 3/2/43 Applied to chart No. Date:

Redrafting Completed: 4/14/43

Registered: 2/7/45 Published: 11/13/43

Compilation Scale:
1:20,000 x .986=19,720

Published Scale: 1:31,680

Scale Factor (III):
1.014

Geographic Datum (III): N. A. 1927 Datum Plane (III): Mean Sea Level

Reference Station (III): Hill 1908

Lat.: 38° 03' 13.392" Long.: 75° 19' 40.751" Adjusted

State Plane Coordinates (VI):
Maryland coordinate system (single zone)
X = 1,281,472.04 Y = 84,669.62
Virginia coordinate system, South zone
X = 2,913,258.45 Y = 641,734.00

Military Grid Zone (VI) A

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
8726-8728	4/14/42	12:48p.m.-12:51p.m.	1:20,000	2.5' above M. L. W.
8729-8731	4/13/42	12:55p.m.-12:58p.m.	1:20,000	1.4' above M. L. W.
8778-8779	4/14/42	2:15p.m.-2:16p.m.	1:20,000	.5' above M. L. W.

Tide from (III): Sandy Hook, N. J. with time correction for George Island, Landing, Maryland.
Mean Range: 0.61 Spring Range: 0.71

Camera: (Kind or source) U. S. Coast & Geodetic nine lens camera (focal longt

Field Inspection by: Party under Lt. Comdr. Wm. D. Patterson date: Spring & Summer, 19

Field Edit by: Joseph Wilson date: Nov. -

Date of Mean High-Water Line Location (III):

Date as given on above mentioned photographs

Projection and Grids ruled by (III) Washington Office date: Unknown

" " " checked by: Washington Office date: Unknown

Control plotted by: J. E. Deal, Jr. date: 8/26/42

Control checked by: J. J. Brasil date: 8/26/42

Radial Plot by: J. E. Deal, Jr. date: 9/2 & 4/42

Detailed by: E. C. Jastremski date: 9/15 - 10/15/

Reviewed in compilation office by: Carl W. A. Supp, Charles C. Tropp date: 10/26 - 11/4/ 11/2 - 11/4/

Elevations on Field Edit Sheet checked by: Salisbury office date: Nov. -

STATISTICS (III)

Land Area (Sq. Statute Miles): 17 sq. Statute Miles

Shoreline (More than 200 meters to opposite shore): 62 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 16 Statute Miles

Number of Recoverable Hydrographic and Topographic Stations established: 6 stations

Number of Temporary Hydrographic Stations located by radial plot:
9 Hydrographic Stations

Leveling (to control contours) - miles: 10

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

DESCRIPTIVE REPORT TO ACCOMPANY
T-8155
MARYLAND

WAR MAPPING PROJECT CS-278-B
Wm. D. Patterson, Chief of Party.

INSTRUCTIONS: This work was executed under the Director's Instructions dated March 4, 1942; Supplemental Instructions dated March 27, 1942, and August 13, 1942.

GENERAL DESCRIPTION OF AREA: The area is bounded on the east and south by Chincoteague Bay, and is fringed by large ragged marsh lands extending inland for over a mile in many places. Immediately beyond the inshore edge of the marsh are low hills, many of them 20 feet above sealevel.

The remaining boundaries are as follows: On the west the 75° 22' 30" meridian which lies just west of the village of Bayview, Maryland, and on the north the 38° 7' 30" parallel, which lies about 3/4 mile north of the village of Boxiron, Maryland.

The topography is characterized by low rolling hills with the trend towards north and south ridges paralleling Chincoteague Bay.

About half the area is wooded with rapidly growing pine and hardwood species, the remainder is given to agriculture.

FIELD INSPECTION OF AIR-PHOTOS: The shoreline was field inspected by Caswell Silver, Sr. Engineering Aid, on single-lens photographs.

The inshore area was field inspected by Glen B. Woolley, Sr. Engineering Aid, on single-lens photographs.

In an effort to supply the Baltimore Office with work, speed was essential. Six horizontal control stations were located on the photographs to an accuracy of less than 4 meters, six topographic stations were located to the same accuracy, and five vertical control stations were also located to the same accuracy.

Immediately on the completion of this work, the photographs with complete field data were sent to the Baltimore Compilation Office.

LEVELING: The Bench Marks located within the areacovered by this quadrangle were established by the U. S. Coast and Geodetic Survey. A supplemental level network was established by Glenn B. Woolley, Sr. Engineering Aid.

Unmarked elevations were established and plotted on the photographs at intervals of less than 1/4 mile apart along the roads and at all road intersections.

The leveling was done with a Wye level, using rods marked in feet and tenths, and readings made to .01 of a foot.

All the supplemental levels were tied to established bench marks and because of the necessity of speed, the following accuracy was required:

1. Closures less than .3 were not adjusted.
2. Closures between .3 - .99 were adjusted.
3. All lines with closures of 1.00 or over were rerun to locate the error.

CONTOURING: The contouring was done by Glenn B.Woolley, Sr. Engineering Aid, and Harland R. Cravat, Engineering Aid. The contours on photographs 8726 and 8725 were done by Woolley, and those on photographs 8731, 8727 and 8728 by Cravat.

The contour interval was 20 feet and done directly on the photographs. No attempt was made to keep the contouring of one quadrangle on one photograph; there was, however, an attempt made to keep the work as near the center portion of the photograph as possible in an effort to minimize distortion and large changes in scale.

The field work was done by a four-man planetable party, thoroughly covering the entire area, in an effort to locate all surface changes and to classify the culture of the land.

Elevations were carried by direct levels, vertical angles and the stepping method and all lines run by the plane party were closed within an accuracy of less than one foot.

In densely wooded areas where an elevation was desirable in a drain or at an object readily definable on the photograph, the elevation was often determined by the use of a hand level.

RECORDS

Field inspection of photographs was done on single-lens photographs Nos. 4237, 5215, 5216, 5217, 5218.

Leveling was done on single-lens photograph No. 8725.

Contouring, classification and clarification of detail were done on nine-lens photographs Nos. 8725, 8726, 8727, 8728 and 8731.

Approved:
Wm. D. Patterson
Wm. D. Patterson,
Chief of Party, C&GS,

Respectfully submitted,
Harland R. Cravat
Harland R. Cravat,
Engineering Aid.

CONTROL:

Seven U. S. Coast & Geodetic Survey triangulation stations within the limits of this survey, and 10 Stations beyond the limits, were used as control.

Those within the limits are:

Landlet	1907	R.M. 1
Big Bay Point	1933	? Not used, or not recovered. Topo "Bay 1942" set close by old position.
Tizz	1908	
Pope Island	1907	(Maryland -Virginia)
Mill	1908	
Long	1933	V. F. C.
Long Point	~~1901~~ 1934	M. S. F. S.

The following triangulation stations, used for the control of secondary points and detail on this map manuscript, fall outside the detailed limits:

Cord	1933	(V. F. C.)
Lonsome Hollow, East Chimney	1907	
Connor	1932	
Guilbert's Cupola	1907	
Purnell		V. F. C.
Maryland & Virginia Davis		R. M. 3
Money	1907	
Davis	1932	
Maryland and Virginia L.S.S.	1907	
Pope Island Coast Guard Station		1908 (Virginia)

With the exception of photograph No. 8729, every photograph had good control. To offset the poor control of photograph No. 8729, radial points were cut by orienting each chamber of this particular photograph separately.

Triangulation station "Purnell", which was pricked direct on all photographs was in most cases very vague. For this reason, it was not held while cutting in radial points.

RADIAL PLOT:

The radial plot for this map manuscript was included in a combined plot covering several surveys. Notes pertaining to the combined plot will be found in the radial plot report for War Mapping Project CS-278, sub-project CS-278-B, previously submitted.

DETAILING:

Nine lens photographs were used for detailing the largest part of the area of the manuscript. 9" x 9" single lens photographs were occasionally used for supplementary reference in cases where definition on the nine lens photographs was poor. The 9" x 9" single lens prints were obtained from the Agricultural Adjustment Administration.

The nine lens field prints satisfactorily covered the entire area of Boxiron and Bayview, with single lens photographs being used occasionally. However, the nine lens field inspection photographs did not give any information concerning the shoreline and the areas near Striking Island, Cedar

DETAILING: (cont'd)

Islands, and Toby Islands. The interpretation for these areas was obtained from the single lens field prints, although the inspection on these photographs was not very complete. The stereoscope was used frequently to establish marsh and brush lines.

Detailing of map manuscript was completed in the usual manner except for the shore area in the extreme southeastern portion of the quadrangle. The field inspection located the Coast Guard telephone line running parallel to the beach by the taping of distances to the line from several topographic stations which were pricked on the single lens photographs. Distances to the high water line were in turn measured at intervals from the telephone line. Since the telephone line was not visible on the nine lens photographs which were used for detailing, it was necessary to arrive at a scale factor between the single lens and nine lens photographs. Distances to the telephone line were scaled from the topographic stations pricked on the nine lens photographs and the telephone line was located. The high water line was in turn located by applying the scale factor to the distqnces furnished by the field inspection and scaling them off from the position of the telephone line. The topographic stations used as reference points in this procedure were spaced rather far apart. Therefore, as a check to make certain that the telephone line and high water line had been correctly located, common points along the telephone line on both the single lens photographs and the nine lens photographs were pricked. Distances to the telephone line and the high water line on the single lens photographs were scaled, the scale factor was applied, and the adjusted distances were scaled from the corresponding points on the nine lens photographs. In all cases points resulted which fell directly on the telephone line and high water line as previously located.

SUPPLEMENTAL DATA:

Previous surveys T-311, T-264, T-763, T-2896, cover portions of the area of this survey. However, copies of these surveys are not available for comparison with Survey No. T-8155. See office review.

MEAN HIGH WATER LINE:

The field inspection of the high water line was in most cases incomplete and was done on the single lens photographs. In cases where the location of the high water line was not indicated by field inspection, it was interpreted by the compiler, using a stereoscope when necessary.

LOW WATER AND SHOAL LINES:

There are no low water lines indicated by field inspection within the limits of this survey.

DETAILS OFFSHORE FROM THE HIGH WATER LINE:

There are a few marshes in the vicinity of Parker's Bay which might hinder navigation. There is also a troublesome shell bank below Mill Island. It is described on the discrepancy overlay.

WHARVES AND SHORELINE STRUCTURES:

Shoreline structures and docks have been detailed according to the field prints and nine lens office prints.

LANDMARKS AND AIDS TO NAVIGATION:

There are no data available to the compilation office covering landmarks or aids to navigation for charting in the area of this survey.

HYDROGRAPHIC CONTROL:

There are six hydrographic and topographic stations which may be used by the hydrographic party for future reference. They are:

Bay	1942
Gag	1942
Lit	1942
Pur	1942
Rod	1942
Sam	1942

Form No. 524 is being submitted for the above stations.

In addition to the above, nine suitable points have been pricked by the compiler on the photographs and radially plotted on the map manuscript for future use as hydrographic signal sites. The descriptions of the points appear on the discrepancy overlay.

COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

The only changes that have occurred, as shown by a comparison of the U. S. Geological Survey Quadrangle of this area with Survey T-8155, are the renaming of Blue Pond to Beef Cove, and Purnell Pond to Purnell Cove.

COMPARISON WITH NAUTICAL CHARTS:

In comparing this map manuscript with Chart No. 1220 issued May 1938, no changes in detail are noticeable.

REMARKS:

The accuracy of the location of all well-defined points of detail on this map manuscript is believed to be well within the limits specified in the instructions for this project.

A discrepancy overlay has been prepared to accompany the manuscript. On it are shown discrepancies between field inspection photographs, differences of interpretation by the field inspection and compilation office, and descriptions of additional hydrographic signal sites.

Respectfully submitted,

Edward C. Jastremski
Asst. Photogrammetric Aid

Reviewed by,

Carl W. A. Supp
Jr. Topographic Engineer

And

Charles C. Tropp
Sr. Photogrammetric Aid

Approved, 11/4/47

L. W. Swanson, Lieutenant
U. S. Coast & Geodetic Survey

Approved & Forwarded,

Fred. L. Peacock
Officer-in-Charge
Baltimore Field Office

FIELD EDIT REPORT
QUADRANGLE T-8155
Project CS-278-B
F. L. Gallen, Chief of Party

1. The land area on this sheet is comprised of a series of necks and points which extend out into Chincoteague Bay. Much of this area is marsh.

15. The bridge classification was done in accordance with the instructions.

17. Political boundaries were obtained from maps issued by the Maryland And Virginia State Roads Commissions and were verified in the field. ✓

18. Geographic Names were taken from a special report CS-278-B. ✓A

46. All additions, deletions and corrections were made on the map manuscript and transferred to a smooth copy after the completion of the field edit work.

The inking of the sheet was done in accordance with the following scheme:

FEATURES	COLORS
Additions, bench marks and level elevations	Black
Deletions	Green
Drainage features	Blue
Political boundaries	Purple
Test contour	Orange

47. The position and amount of detail on this map manuscript is complete and accurate.

48. Horizontal accuracy tests were run in quadrangles T-8154 and T-8130. A vertical accuracy test was run on this sheet at latitude 38°07'3, longitude 75° 21'5. The test is shown by an orange line connected by black dots; the black dots indicate the elevations ascertained in the field.

Submitted by

Joseph K. Wilson for Th. G.
Joseph K. Wilson,

Approved by
F. L. Gallen
F. L. Gallen, Chief of Party

For discussion of adopted position of Maryland-Virginia Boundary Line see detailed report attached to Descriptive Report T-8154

Ralph Moore Berry 4/14/43

GEOGRAPHIC NAMES LIST FOR T-8155

Accomack County
Assacorkin Thoroughfare
Assateague Island
Beasey Creek
Bens Island
Blue Pond
Bowen Creek
Boxiron
Boxiron Creek
Boxiron Pond
Bridge Creek
Brimer Gut
Brimer Landing
Brockatonorton Bay
Calfpen Bay
Cedar Islands
Chincoteague Bay
Clam Harbor Tumps
Coffman Marsh
Easter Opening
Figgs Landing
George Island Landing
Great Bay Marsh
Great Bay Point
Hallbrooks Gut
Hardys Hole
Hog Island
Hog Island Point
Horsehead Shoals
Horsehead Tump
Hudson Landing
Hunting Point
Johnson Bay
Knox Marsh
Long Point
Martin Bay
Martin Point
Mills Island
Mills Island Creek
Mink Tump
Muddy Thoroughfare
Oak Hummock
Parker Bay
Parker Bay Tumps
Pikes Creek
Pikes Creek Marsh
Pitts Island
Pope Island Bay
Pope Island
Pope Island Ditch
Purnell Bay
Purnell Point
Purnell Point Marsh
Purnell Pond
Ragged Point
Rattlesnake Island
Rattlesnake Landing
Ragged Point Marshes
Ready Cove
Ready Cove Tump
Riley Cove
Robbins Tump
Riley Creek
Rowley Cove
Rum Harbor
Rum Harbor Cove
Rum Harbor Ditch
Rum Harbor Marsh

Balance of names not listed=

Sandy Pt
Sassafras Hammock
Scarboro Creek
Scarboro Ldg.
Scott Hammock
Shell Pt.
Shellbanks I.
Striking Marsh
Taylor Ldg
The Ditch
The Ditch
Toby Is.
Toby I. Bay
Truitt Cr.
Truitt Ldg
Virginia Cr.
Watermelon Pt.
West Bay Tump
" "
White Rock

GEOGRAPHIC NAMES

Survey No. T-8155

BOXIRON quadrangle

No. 1 Name on Survey	A, On Chart No.	B. On previous survey No.	C, On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
Chincoteague Bay										1
Accomack County										2
Worcester County										3
Ragged Point										4
Toby Islands										5
Virginia Creek										6
Pope Bay										7
Pope Island										8
Cedar Islands										9
Striking Marsh										10
Big Bay Point										11
Rum Harbor Marsh										12
Rum Harbor										13
Rum Harbor Cove										14
Rum Harbor Ditch										15
White Rock										16
Pope Island Ditch										17
Horsehead Shoals										18
Horsehead Tump										19
West Bay										20
West Bay Tump										21
The Ditch										22
Toby Island Bay										23
Pitts Island										24
Ragged Point Marshes										25
Calfpen Bay										26
Big Bay Marsh										27

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T-8155

No. 3

	Remarks	Decisions
1		380753
2		"
3		"
4	Recent decision	" USGB
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23	Recent decision applies name to Ocean City Inlet	379752-53 USGB
24		~~380752~~
25		380753
26		381752
27		"

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GEOGRAPHIC NAMES

Survey No. T-8155

No. 2

Name on Survey	On Chart No. A,	On previous survey No. B,	On U. S. quadrangle Maps C,	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Long Point	✓									1
Purnell Bay	✓									2
Riley Cove	✓									3
Purnell Point	✓									4
Hardys Hole	✓									5
Mills Island	✓									6
George Island Landing	✓									7
Parker Bay	✓									8
Assacorkin Island	✓									9
Johnson Bay	✓									10
Pikes Creek	✓									11
Scarboro Creek	✓									12
Sandy Point	✓									13
Hog Island Point	✓									14
Taylor Landing	✓									15
Rowley Cove	✓									16
Tizzard Island	✓									17
Brockatonorton Bay	✓									18
Rattlesnake Island	✓									19
Rattlesnake Landing	✓									20
Martin Bay	✓									21
Martin Point	✓									22
Purnell Point Marsh	✓									23
The Ditch	✓									24
Knox Marsh	✓									25
Riley Creek	✓	name shown in T-8154								26
Clam Harbor Tumps	✓									27

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No. 2

	Remarks.	Decisions
1		380753 USGB
2		" "
3		"
4		"
5		"
6		"
7	Recent decision	" USGB
8		"
9	Recent decision	" USGB
10		"
11		"
12		" USGB
13		"
14		"
15		" USGB
16		"
17		"
18		" USGB
19		"
20		"
21		" USGB
22		"
23		"
24	Parker Bay to Riley Cove	"
25		"
26		"
27		"

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	Remarks	Decisions
1		380752
2	Recently adopted spelling	
3		
4		379752-53
5		380752
6		"
7		" USGB
8		"
9		"
10		"
11	Recent decision	" USB
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22	Pope Bay to West Bay	"
23		"
24		"
25		379752-53
26		"
27	Board's decision for Big Bay Point governs change from Great Bay Marsh	380752

GEOGRAPHIC NAMES

Survey No. T-8165

No. 3

Name on Survey	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
Coffman Marsh	✓									1
Bowen Creek	✓									2
Mills Island Creek	✓									3
Assacorkin Thorofare	✓									4
Parker Bay Tumps	✓									5
Beasey Creek	✓									6
Oak Hammock	✓									7
Sassafras Hammock	✓									8
Shell Point	✓									9
Pikes Creek Marsh	✓									10
Hunting Point	✓									11
Scarboro Landing	✓									12
Hog Island	✓									13
Hudson Landing	✓									14
Mink Tump	✓									15
Easter Opening	✓									16
Robbins Tump	✓									17
Ready Cove	✓									18
Ready Cove Tump	✓									19
Muddy Thorofare	✓									20
Shelldrake Island	✓									21
Truitt Landing	✓									22
Truitt Creek	✓									23
Assateague Island	✓									24
Bridge Creek	✓									25
Blue Pond	✓									26
Watermelon Point	✓									27

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T-8155

No. 4

	Remarks.	Decisions
1		381752
2		381753
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		
11		
12		Worcester Co. Map 1935
13		Md. Geol. Survey "
14		
15		Accomack Co. Transp. Map
16		1941 "
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

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GEOGRAPHIC NAMES

Survey No. T-8155

No. 4

Name on Survey	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
Figgs Landing	✓									1
Boxiron Creek	✓									2
Boxiron	✓									3
Purnell Pond	✓									4
Scott Hammocks	✓									5
Hallbrooks Gut	✓									6
Brimer Gut	✓									7
Brimer Landing	✓									8
Boxiron Pond	✓									9
										10
Political subdivisions:										11
Stockton No. 8	✓	(Md)								12
Snow Hill No. 2	✓									13
										14
Atlantic		(Va.)								15
Chincoteague	✓									16
										17
										18
										19
				Names approved						20
				by L. A. Heck on 1/27/43						21
										22
										23
										24
										25
										26
										27

M 234

RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

Registered and Filed in the Vault

Cloth-mounted copy of the published quadrangle.

Black and white cloth-mounted copy of the ~~map manuscript~~ published quadrangle at 1:20,000 scale. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For ~~political boundaries~~, woodland, ~~marsh, and swamp limits~~, refer to the published quadrangle for the finally adopted positions.

Descriptive Report.

Filed in the Photogrammetric Section - Surveys Branch

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Reviewing Unit.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Original celluloid manuscript.

Copies of specifications and all instructions to field parties and field offices.

Filed in Reproduction Branch

Glass negatives of the color separation drawings.

Filed in the Library

Special report on field work by Commander K. T. Adams, 1944.

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L. Gallen, 1944.

Season's report on field work by Commander R. L. Schoppe, 1944.

Delivered to the Army Map Service in accordance with the contract

Film negatives and film positives of the color separation drawings.

All color separation drawings.

~~Original celluloid manuscript.~~

A correction sheet consisting of a copy of the first edition of the quadrangle with notes in red indicating changes desirable at the next printing.

General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S.278-B was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000.

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs.

Contouring by planetable directly on the photographs. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, driveways, and numerous other points identifiable on the photographs.

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templets) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the Baltimore Tampax Photogrammetric Office.

FIELD EDIT

Comparison of a copy of the manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blueline" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8155

BOXIRON QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy

Refer to page 6 of the Descriptive Report for T-8154 for a copy of the results of the nearest horizontal accuracy test. This test was accepted as satisfactory. The vertical accuracy test was performed on the field edit sheet for this quadrangle. This test was accepted as satisfactory and proved the field work to be adequate. This test showed some inaccuracies due to sketching, but no contour was displaced by more than a half a contour interval.

Previous Surveys/

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

T-311	1:20,000	1850	
T-264	1:20,000	1850	
T-763	1:20,000	1859	
T-723	1:20,000	1858	
T-2896	1:20,000	1908	
"Snow Hill"	1:62,500	1901	U.S.G.S.

Comparison with Nautical Charts Nos. 1220

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

Only small differences in shoreline were apparent during comparison of this chart with the manuscript.

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

Only changes of a minor nature were necessary during review. For a discussion of the adopted position of the Maryland-Virginia boundary line, see the detailed report on page 7 of the Descriptive Report for quadrangle T-8154.

Reviewed 3/2/43 By W. A. Belling
under direction of D. H. Benson per J.H.S.

Inspected by B. G. Jones B.G.Jones

Examined and approved:

Charles Price
Chief, Surveys Branch

L. O. Gordon
Chief, Div. of Charts

K. T. Adams
Chief, Topography Section

G. Rude
Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-8155

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
12/22/47	1220	D. Engel	Before ~~After~~ Verification and Review completely applied
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.