

# 8312

Original

8312

Diag'd. on Diag. Ch. No. 73-3

|                                                                 |                          |
|-----------------------------------------------------------------|--------------------------|
| Form 504                                                        |                          |
| U. S. COAST AND GEODETIC SURVEY                                 |                          |
| DEPARTMENT OF COMMERCE                                          |                          |
| DESCRIPTIVE REPORT                                              |                          |
| Type of Survey <u>Air Photographic Topographic</u>              |                          |
| Field No. ....                                                  | Office No. <u>T-8312</u> |
| LOCALITY                                                        |                          |
| State <u>Virginia</u>                                           |                          |
| General locality <u>Warwick &amp; Isle of Wight Counties</u>    |                          |
| Locality <u>Mulberry Island, James River</u>                    |                          |
| <u>194 4</u>                                                    |                          |
| CHIEF OF PARTY<br><u>F.L. Gallen</u><br><u>Fred. L. Peacock</u> |                          |
| LIBRARY & ARCHIVES                                              |                          |
| DATE <u>August 5, 1946</u>                                      |                          |

## DATA RECORD

T-8312

Quadrangle (II): 7½ minute

Project No. (II): C.S. 289

Field Office: Suffolk, Va.

Chief of Party: F. L. Gallen

Compilation Office: Baltimore, Md.

Chief of Party: Fred. L. Peacock

Instructions dated (II III):

Mar. 13, July 10, Oct. 20, and Nov. 25, 1943

Jan. 18, 1944

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

Completed survey received in office: 5/19/44

Reported to Nautical Chart Section: 5/20/44

Reviewed: 6/9/44

Applied to chart No.

Date:

Redrafting Completed: 8/5/44

Registered: 7/46

Published: 1944

Compilation Scale: 1:20,000

Published Scale: 1:20,000

Scale Factor (III): None

Geographic Datum (III): N. A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): HOLLOWAY (V.C.F.) 1937

Lat.: 37° 05' 39.231" (1209.4m) Long.: 76° 32' 41.346" (1021.1m) Adjusted  
~~Quadrangle~~

State Plane Coordinates (VI): Va. South

X = 2 576 219.62 Ft. Y = 282 932.01 Ft.

Military Grid Zone (VI) A

PHOTOGRAPHS (III)

| <u>Number</u> | <u>Date</u> | <u>Time</u> | <u>Scale</u> | <u>Stage of Tide</u> |
|---------------|-------------|-------------|--------------|----------------------|
| 12890 - 12897 | 12/31/42    | 10:48 A.M.  | 1:20,000     | 0.2' above M.L.W.    |
| 12854 - 12859 | 12/31/42    | 9:54 A.M.   | 1:20,000     | 0.2' above M.L.W.    |
| 12687 - 12689 | 11/28/42    | 2:14 P.M.   | 1:20,000     | 2.1' above M.L.W.    |
| 12690 - 12694 | 11/28/42    | 2:18 P.M.   | 1:20,000     | 2.1' above M.L.W.    |

Tide from (III): Predicted tables, 1942, Reference Station Hampton Roads -  
correction to Lynnhaven Inlet

Mean Range: 2.0'

Spring Range: 2.4'

Camera: (Kind or source) U.S.C. & G.S. nine lens camera  
(8 $\frac{1}{4}$ " focal length)

Field Inspection by: Joe N. Henningsen, Marvin C. Jenkins  
and Orvis N. Dalbey date: Jan. 1944

Field Edit by:

date:

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

Projection and Grids ruled by (III) J.T.B. - B.R.C. date: 2/28/44

" " " checked by: L.U.E. date: 2/22/44

Control plotted by: Ruth E. Rudolph date: 3/7/44

Control checked by: M. Eleanor Herzog date: 3/8/44

Radial Plot by: Joseph Steinberg and J. Edward Deal, Jr. date: 4/17 to 4/19/44

Detailed by: Carl W. A. Supp, William O. Norris  
and Florence M. Hammond. date: 4/29 to 5/18/44

Reviewed in compilation office by: Carl W. A. Supp  
Henry P. Eichert date: 5/17 to 5/18/44

Elevations on Field Edit Sheet

checked by: ELEVATIONS ON MANUSCRIPT CHECKED AGAINST  
THOSE SHOWN ON PHOTOS. date: 6/10/44  
O. M. Norton

STATISTICS (III)

Land Area (Sq. Statute Miles); 20

Shoreline (More than 200 meters to opposite shore); 22 Statute Miles

Shoreline (Less than 200 meters to opposite shore); 11½ Statute Miles

Number of Recoverable Topographic Stations established; 5 (all bench marks)

Number of Temporary Hydrographic Stations located by radial plot;

Leveling (to control contours) - miles;

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;

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

This quadrangle, together with similar adjoining maps produced under Project C.S. 289-A, 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, drive-ways, and numerous other points identifiable on the photographs.

### **COMPILATION OF MANUSCRIPT**

Compilation on the map manuscripts by radial plot methods (celluloid hand templates) 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-Tampa 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 "blue-line" 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.



FIELD INSPECTION REPORT  
QUADRANGLE T-8312  
Project CS-289-A  
F. L. Callen, Chief of Party

1. DESCRIPTION OF THE AREA:

This quadrangle is located within the limits of Warwick and Isle of Wight Counties, Va. The James river nearly divides the quadrangle into equal parts, the northern part being in Warwick County and the southern portion being in Isle of Wight County. The northeast and southwest portions of the area are to be classed as rolling land, which is about equally divided into farmland and timberland. The farmland is found along the higher ridges, while the timberland is found along the numerous creeks and their tributaries that drain the farmland. Drainage, as a whole, in the wooded sections is very poor. A well developed farming section, partially inhabited by a colony of Menonites, is located in the vicinity of Mobeia, a small village on the banks of the Warwick river, and on the northern side of the James River. Camp Patrick Henry is located in the northeast corner of the survey. Mulberry Island, a part of the property of Fort Eustis Military Reservation, is a strip of land extending in a northwest-southeast direction and located along the western side of the quadrangle. This island is a very low, flat, wooded piece of ground which is used by Langley Field, a U. S. Army Air Force Bomber Base, whose main field is located about 10 miles east of here, for a Bombing Range. The island is uninhabited. The area south of the James River, in the vicinity of Tormentor and Williams Creeks, is well developed farmland along the higher portions of ground, and heavily wooded areas following the drainage pattern formed by these creeks. The main industries throughout the quadrangle are farming, fishing and lumbering.

2. COMPLETENESS OF FIELD INSPECTION:

The field inspection is thought to be complete. All topographic features have been classified. The color scheme for buildings that were inked on the photographs is as follows: dwellings (red), barns (purple), stores (green), and public buildings (blue). Only the buildings inked are to be shown on the map drawing. Trails are shown by a dashed line this----, and generally labeled "trail". The drainage and marsh areas as inked on the photographs is correct as shown. Highways and roads have been classified and shown on the topo photographs. It is thought that all necessary information is shown on the field sheet that should be shown on the map drawing. Classification of bridges and culverts which have been designated on the photos, and any other small items erroneously omitted will be noted by the field edit party. Information on various Military Reservations is as follows:

CAMP PATRICK HENRY MILITARY RESERVATION--see report for T-8317 for information on this reservation.

FORT EUSTIS MILITARY RESERVATION--See report for T-8317 for information on this reservation. All detail shown on Mulberry Island is complete and correct as shown.

MARINERS MUSEUM--The boundaries of this Museum are shown on the photographs for this area. They are complete and correct as shown. All information within the limits of this park have been delineated on the photographs and may be shown as field inspected. This is a public park. — This boundary falls entirely on T8313



3. INTERPRETATION OF THE PHOTOGRAPHS:

See report for T-8317.

4. HORIZONTAL CONTROL:

See report for T-8317.

5. VERTICAL CONTROL:

See report for T-8317.

6. CONTOURS AND DRAINAGE:

See report for T-8317.

7-13. The items under these headings in the field inspection report do not apply to this area.

14. ROAD CLASSIFICATION:

See report for T-8317.

15. BRIDGES AND CULVERTS:

See report for T-8317.

16. BUILDINGS AND STRUCTURES:

See report for T-8317.

17. BOUNDARY MONUMENTS AND LINES:

The boundary lines of Camp Patrick Henry, <sup>8313</sup>Mariners Museum, Fort Eustis have been shown on the photographs for the area and are correct as shown. The boundary line between Warwick and Isle of Wight Counties, Va. is formed by the James River.

18. GEOGRAPHIC NAMES:

See report for T-8317.

19. JUNCTIONS:

Junctions with quadrangle T-8311 to the west, T-8317 to the north, T-8313 to the east and T-8305 to the south have been made and are in agreement.

20. PHOTOGRAPHS USED:

Photographs used in surveying this area were nos. 12690, 12691, 12692, 12856, 12857, 12858, 12895 and 12896.

Approved and forwarded:

*F. L. Gallen*

F. L. Gallen  
Chief of Party

Submitted by:

*Orvis N. Dalbey per J. J. E.*

Orvis N. Dalbey  
Sr. Photo. Aid.



SHEET NO. T-8312

Breakdown of Field Completion Operations

Shoreline:---Joe N. Henningsen, Asst. Photo. Eng.---Jan. 1944.  
Recovery:---Marvin C. Jenkins, Sen. Eng. Aid.---Jan. 1944.  
Boundaries:---Joe N. Henningsen, Asst. Photo. Eng.---Jan. 1944.

Joe N. Henningsen

Orvis N. Dalbey

James

Ever

Gordon  
Bowker

26 CONTROL:

Thirty-six (36) horizontal control stations were recovered and identified on the nine lens 1:10,000 field photographs of Project C.S. 283 by the Field Party of that Project. They were transferred from the 1:10,000 field photographs to the 1:20,000 office photographs at the Compilation Office. Those falling within the detailed limits of the Map Manuscript are:

MULBERRY (U.S.E.) 1930, r.1938  
P.T.S. 20P, 1918 (U.S.G.S.)  
P.T.S. 21P, 1918 (U.S.G.S.)  
WARWICK RIVER TOWER, FLAGPOLE, 1938  
MADDOX (V.C.F.) 1937  
YANK (V.C.F.) 1937  
HOLLOWAY (V.C.F.) 1937  
JACK (V.C.F.) 1937  
PATCH (V.C.F.) 1937  
CURTIS POINT TOWER FLAGPOLE, 1938  
JAIL (U.S.E.) 1930, r.1938  
JORDAN (V.C.F.) 1937  
BUNKER HILL (V.C.F.) 1937  
HOUSE SOUTH OF BLUNT POINT, 1938  
UPTON FARM, BARN N.E. GABLE, 1938  
CEDAR (V.C.F.) 1938  
"THE ROCKS" BARN, 1938  
PAGAN (V.C.F.) 1938  
WHITE SHOALS LIGHTHOUSE, 1909, r.1927, r.1932

Those falling just outside the limits of the Map Manuscript are:

SMITHFIELD, 1932  
JONES CREEK LIGHT 2, 1938  
GOODWIN (V.C.F.) 1938  
MONUMENT, 1938  
DENBIGH, 1932  
P.T.S. 26-P, 1918 (U.S.G.S.)  
FORT EUSTIS ALUMINUM WATER TOWER, 1932  
LEE, HALL, BLACK FLAT TOP WATER TOWER, 1932  
P.T.S. 29-P, 1918 (U.S.G.S.)  
P.T.S. 23-P, 1918 (U.S.G.S.)  
CHURCH, 1932

26 CONTROL: (Continued)

GHOST, 1938  
EXTRA, 1933  
POINT OF SHOALS, 1938  
DEEPWATER SHOAL LIGHTHOUSE  
EUSTIS, 1938  
TOWER NEAR CRAWFORD FLAGPOLE, 1938

The Field Party established field inspection points at well defined points of detail, near many of the horizontal control stations.

All of the horizontal control stations mentioned were used to establish photograph centers, secondary control points, and detail points.

27 RADIAL PLOT:

The radial plot for this Map Manuscript is part of Main Radial Plot No. 4 of Project C.S. 289, the descriptive report for which will be included in the descriptive report for Survey No. T-8318, which will be submitted to the Washington Office in the near future.

28 DETAILING:

In general, the field inspection data furnished the Compilation Office were satisfactory. In some cases it was found advantageous to prick the detail points on the field photographs and detail directly from them. However, in most areas the field inspection data were transferred directly to the office photographs and detailed therefrom.

The scale difference between the photographs and the Map Manuscript was in fair agreement; hence the detailing was accomplished without the aid of the vertical projector.

All tree areas are shown with a symbol in green acid ink and classified according to instructions from the Washington Office.



28 DETAILING: (Continued)

When drainage was wide enough to show both shores to advantage, they were shown in black acid ink. All other drainage was shown with a single line in blue acid ink. The conventional symbols were used in showing perennial and intermittent streams. Part of the detail has been omitted within the reservation boundaries of Camp Patrick Henry, in compliance with the request of the military authorities.

29 SUPPLEMENTAL DATA:

Three previous topographic surveys have been made by the U. S. Coast & Geodetic Survey covering portions or all of the area of this Map Manuscript. These surveys, namely: Survey T-497, dated 1853, scale 1:20,000; Survey T-1266, dated 1871-73, scale 1:20,000, and Survey H-3045a, dated 1910, scale 1:20,000, were not available to this Compilation Office.

Ozolid prints of Map Drawings for Survey Nos. T-8060 and T-8061, scale 1:10,000, were available to the Compilation Office.

30 MEAN HIGH-WATER LINE:

The stage of tide of all photographs used in the process of detailing this Map Manuscript was computed and found to be just below Mean High-Water. The High-Water Lines and marsh lines shown on this Map Manuscript have been detailed after careful stereoscopic examination of the photographs with the aid of data furnished by the Field Party.

31 LOW-WATER AND SHOAL LINES:

Approximate Low-Water and shoal lines visible on the photographs were detailed. None were indicated by field inspection data.

32 DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

None were indicated by field inspection data and none were visible on the nine lens photograph.

33 WHARVES AND SHORELINE STRUCTURES:

All wharves and shoreline structures indicated by field inspection data, and others not indicated but visible on the nine lens photographs, have been detailed.

34 LANDMARKS AND AIDS TO NAVIGATION:

See Chart Letter 917(49). Copy enclosed.

Contrary to the statement in the field inspection report that "Items Nos. 7-13 inclusive are not applicable" to the area of this Map Manuscript, a number of previously established landmarks and non-floating aids to navigation, are located within the limits of this survey.

Landmarks for this area are listed in the Descriptive Reports of Map Drawings for Surveys Nos. T-8060 and T-8061, Project No. C.S. 283. The landmarks were shown on those Map Drawings in accordance with standard practice, and their positions were submitted to the Washington Office on Form 567 on March 24 and May 4, 1943.

Five non-floating aids to navigation are shown on Nautical Chart No. 529, in the area of this Map Manuscript. They are as follows:

BEACON 6, DEEP CREEK  
BEACON 2, DEEP CREEK  
LIGHT, BRIGGS WHARF  
LIGHT, GAP SHOAL  
JONES CREEK 1

*Filed in Naut. Chts.  
Ch. Letter 377-74*

With one exception, namely Jones Creek 1, the above lights are shown on either Map Drawing for Survey No. T-8060 or Map Drawing for Survey No. T-8061. They are listed in the applicable Descriptive Report and their positions have been submitted on Form No. 567. No data on fixed aids to navigation have been received from the Field Party by the Compilation Office. Since the lights in question are in no case distinctly visible on the office photographs, they were not radially plotted on the Map Manuscript. Their names and positions have been indicated on the discrepancy overlay for recommended investigation by the Field Edit Party. (over)

34 LANDMARKS AND AIDS TO NAVIGATION: (Continued)

Triangulation station, "WHITE SHOALS LIGHTHOUSE, 1909, r.1927, r.1932" apparently has the same geographic position as a tower shown as a landmark on Chart 529. The 1944 edition of "Light List - Atlantic and Gulf Coasts", lists no lighthouse in this vicinity. It would appear, therefore, that the lighthouse is no longer in use as such. It is recommended that the Field Edit Party investigate the matter and an appropriate note appears on the discrepancy overlay.

35 HYDROGRAPHIC CONTROL:

Falling within the limits of this Map Manuscript are five (5) fixed aids to navigation which are available for use as partial hydrographic control, as long as they remain in position. The positions established by Surveys Nos. T-8060 and T-8061, Project C.S. 283, should be used.

Form 524 is being submitted for five (5) recoverable topographic stations, all of which are also bench marks. It is believed that these stations are located too far inland to be of any value as partial hydrographic control.

Located along the shoreline are numerous horizontal control stations, of which good use could be made as partial hydrographic control, for any future hydrographic survey.

36 LANDING FIELDS AND AERONAUTICAL AIDS:

The Field Party did not furnish the Compilation Office any data on landing fields or recommended aeronautical aids. None are visible on the photographs.

37 DISCREPANCY OVERLAY:

A discrepancy overlay has been prepared to accompany this Map Manuscript. On it are notes recommending investigation of detail believed doubtful. Other notes



37 DISCREPANCY OVERLAY: (Continued)

recommend investigation of fixed aids to navigation. A set of general notes is included to aid in the interpretation of symbols shown on the Map Manuscript.

38 GEOGRAPHIC NAMES:

The results of a geographic names investigation have been furnished the Compilation Office on a copy of the U. S. Geological Survey - Yorktown, 15 minute quadrangle. All undisputed names have been shown on the Map Manuscript. A list of undisputed, disputed and recommended geographic names is attached to this descriptive report.

39 HORIZONTAL ACCURACY:

The horizontal accuracy of this Map Manuscript is believed to be within the limits prescribed for well defined and less well defined points of detail for War Mapping Projects.

40 RECOMMENDATIONS FOR FUTURE SURVEYS:

The planimetry, as presented on this Map Manuscript, is believed to be complete. It is subject to corrections, additions and deletions at the time of the field edit.

41 JUNCTIONS:

Satisfactory junctions have been made with the following:

To the North with Map Manuscript for Survey No. T-8317  
To the East with Map Manuscript for Survey No. T-8313  
To the South with Map Manuscript for Survey No. T-8305  
To the West with Map Manuscript for Survey No. T-8311.

42 REMARKS:

The description for the area of this Map Manuscript, as given in the field report, is adequate.

42 REMARKS: (Continued)

According to the field report, Paragraph 7-13 inclusive, as listed in "INSTRUCTIONS FOR PREPARATION FOR DESCRIPTIVE REPORTS", are not applicable to this Map Manuscript. This Map Manuscript contains much High-Water Line, Low-Water and shoal lines, Hydrographic Control, Landmarks and Fixed Aids to Navigation, and the possibility of Landing Fields and Aeronautical Aids in military reservations. The position of the Compilation Office is that while these items are applicable, they may be considered to have been adequately taken care of by surveys executed under Project C.S. 283.

44 COMPARISON WITH EXISTING TOPOGRAPHIC SURVEYS:

Due to scale difference only a visual comparison could conveniently be made with the U. S. Geological Survey, Yorktown 15 minute quadangle. Many man made changes are evident. Common topographic features are in general fair agreement.

The vertical projector was used in comparing this Map Manuscript with the ozalids of Map Drawings for Surveys Nos. T-8060 and T-8061, scale 1:10,000. The High-Water Line and the adjacent natural and cultural features were found to be in good agreement.

45 COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 529, scale 1:40,000. The chart covers the entire area of the Map Manuscript. Although minute comparison could not be made because of scale difference, common planimetric details were found to be in good general agreement.

In several areas discrepancies were noted in the position of the High-Water Line, apparently caused by natural processes of erosion and deposition. The areas of greatest discrepancy are as follows:

West shore of Mulberry Island, north of the mouth of Nells Creek -- considerable erosion ranging from 20 to 60 meters.

45 COMPARISON WITH NAUTICAL CHARTS: (Continued)

South tip of Mulberry Island -- erosion up to 60 meters.

Jail Island, shown on Chart No. 529, is not visible on the office photographs. It has apparently been completely eroded and the area appears to be entirely under water.

East shore of Warwick River, northeast of Menchville -- a marshy point, shown on the chart as extending northwestward into the Warwick River, has been almost completely washed away. Only a remnant remains.

Blunt Point to Daysville -- a portion of the shoreline of Days Point has been eroded approximately 40 meters. An area immediately to the South of the eroded area has been built up by an equal amount.

A number of fixed aids to navigation which appear on Chart No. 529 are not shown on the Map Manuscript. *SEE FIELD EDIT REPORT*  
Some of them are shown on the Map Drawings for Surveys T-8060 and T-8061.

A cable area of considerable extent, and one covering a smaller area, both shown on Chart No. 529 in the vicinity of the west shore of the Warwick River, are not shown on the Map Manuscript. *SEE FIELD EDIT REPORT*  
However, they have been transferred from the chart and appear on the discrepancy overlay.



Respectfully submitted:

May 18, 1944

Carl W. A. Supp  
Carl W. A. Supp  
Asst. Photogrammetric Engineer

and

William O. Norris  
William O. Norris  
Photogrammetric Aid

and

Florence M. Hammond  
Florence M. Hammond  
Photogrammetric Aid

Map Manuscript, Discrepancy  
Overlay and Descriptive Report  
Reviewed by:

Carl W. A. Supp  
Carl W. A. Supp  
Asst. Photogrammetric Engineer

and

Henry P. Eichert  
Henry P. Eichert  
Jr. Photogrammetric Engineer  
Compilation of Map Manuscript  
Supervised by:

Joseph Steinberg  
Joseph Steinberg  
Asst. Photogrammetric Engineer

and

J. Edward Deal, Jr.  
J. Edward Deal, Jr.  
Asst. Photogrammetric Engineer

Approved and Forwarded:  
May 19, 1944

Fred. L. Peacock  
Fred. L. Peacock  
Commander C. & G. S.  
Officer-in-Charge  
Baltimore Photogrammetric Office

FIELD EDIT REPORT  
TO ACCOMPANY  
QUADRANGLE T-8312  
PROJECT CS-289A-1

F. L. Gallen

Chief of Party

3. It is believed that the cable area shown on Chart 529 as running up the Warwick River should be deleted. Inquiry was made at Camp Eustis and at the telephone company and the information elicited was that the cable area was in use at the time of World War I but is not in use at the present time. Exact information could not be obtained as to whether the cable itself has been removed.
5. The designation and elevation of each bench mark has been checked. The fly-level elevations are to be checked by the Washington Office.
11. The discrepancy overlay noted that four aids to navigation had been located by surveys on Project CS 283. The positions for these aids was not furnished and there is too much shrinkage in the acetate overlay to permit an accurate position to be transferred from the discrepancy overlay: An approximate check was obtained on the positions of these lights. Jones Creek Light 1 was located by planetable and Forms 524 and 567 are being submitted with this report. *- These lights are on single pile and therefore are not shown - amst.*
14. Unclassified roads appearing on the map manuscript have been classified by the field edit party in accordance with the instructions for road classification.
15. All bridges in the area have been classified in accordance with the instructions for bridge classification.
16. All buildings, except dwellings, added by the field edit party have been classified.
17. The Isle of Wight-Warwick County Boundary was transferred from County Maps published by the Virginia State Highway Department at a scale of one inch equals one mile.
46. The field edit was accomplished by visual inspection in the field. All notes were made on an ozalid print of the map manuscript and were transferred to a duplicate ozalid print in the office. The various field edit notes have been inked on the ozalid print, using the following color scheme:

Deletions ..... Green  
Additions, classifications, names & notes.. Black  
Water Culture ..... Blue  
Political Subdivisions ..... Violet



47. The detail, as compiled on this sheet, was complete and adequate with few additions, classifications or deletions necessary.

Milberry Island, in the northwestern part of the quadrangle, was not field edited for the reason that firing was in progress at Fort Eustis and permission could not be granted to visit the area. Since no notes pertaining to this area appear on the discrepancy overlay it was not felt necessary to await a favorable opportunity to enter this area and delay the completion of the quadrangle in the meantime.

48. No vertical accuracy test was run in this quadrangle due to the small amount of land area in the quadrangle. Vertical accuracy tests were run in quadrangles Nos. T-8305 to the south, in T-8311 to the west, and in T-8317 to the north.

A horizontal accuracy test begins near the eastern border of this quadrangle and runs eastward into quadrangle T-8313. The test will be scaled by the Washington Office. *No point in the accuracy test falls on T-8312 see report of 8313 for nearest accuracy test.*

49. The junction has been checked with T-8313 to the east. At Lat. 37-04.1 a class 4U road and a class 5 trail were deleted on T-8312 but were not deleted on T-8313.

The other junctions will be checked at the time the adjoining quadrangles are field edited.

Submitted by:

*William E. Clark*  
William E. Clark  
Sr. Photo. Aid

Approved and forwarded by:

*F. L. Gallen*  
F. L. Gallen  
Chief of Party



GEOGRAPHIC NAMES

Undisputed

~~Blunt Point~~  
✓ Colony Road  
✓ Days Point  
✓ Daysville  
✓ Deep Creek  
✓ Ford Creek  
✓ Fort Boykin (Ruins)  
✓ Goodwin Point  
✓ Jail Creek  
✓ Jail Island (not shown)  
✓ Jail Point  
✓ James River  
✓ Marshy Point  
✓ Menchville

✓ Menchville Road  
~~Mill Pond~~  
✓ Mulberry Island  
✓ Nells Creek  
✓ Oyster Point  
~~Rocks Wharf (old) not shown~~  
✓ Swash Hole  
✓ Swash Hole Islands  
✓ Thorofare  
✓ Thorofare Island  
✓ Thorofare Point  
✓ Tormentor Creek  
✓ Warwick River  
✓ White Shoals Light House  
✓ Williams Creek

## GEOGRAPHIC NAMES

### Recommended

✓Zands End  
✓Lukas Creek  
✓Kennonite Colony  
✓Pagan River

### Disputed

Curtis Point  
Potash Creek  
Hohea  
Pagan Creek

## Remarks

## Decisions

|    |                   |               |
|----|-------------------|---------------|
| 1  |                   | USGB          |
| 2  |                   |               |
| 3  |                   |               |
| 4  |                   | USGB          |
| 5  |                   | Railway Guide |
| 6  |                   | Road Maps     |
| 7  |                   | "             |
| 8  |                   |               |
| 9  |                   | 370765        |
| 10 |                   | "             |
| 11 |                   | " USGB        |
| 12 |                   | " "           |
| 13 |                   | "             |
| 14 |                   | 370766        |
| 15 |                   | "             |
| 16 |                   | 370765        |
| 17 |                   | "             |
| 18 |                   | "             |
| 19 |                   | "             |
| 20 |                   | "             |
| 21 |                   | "             |
| 22 | Pending with USGB | "             |
| 23 |                   | "             |
| 24 |                   | "             |
| 25 |                   | "             |
| 26 | Pending with USGB | 371766        |
| 27 |                   | "             |

# GEOGRAPHIC NAMES

Survey No.  
T-8312

MULBERRY ISLAND quadrangle

1 Name on Survey

|                          | On Chart<br>No. | On previous survey<br>No. | On U. S. quadrangle<br>Maps | From local<br>information | On local Maps | P. O. Guide or Map | Rand McNally Atlas | U. S. Light List |    |
|--------------------------|-----------------|---------------------------|-----------------------------|---------------------------|---------------|--------------------|--------------------|------------------|----|
| A                        | B               | C                         | D                           | E                         | F             | G                  | H                  | K                |    |
| Virginia                 |                 |                           |                             |                           |               |                    |                    |                  | 1  |
| Warwick County:          | Newport         | Danhigh                   | Stanley                     | Districts                 |               |                    |                    |                  | 2  |
| Isle of Wight County:    | Newport         | Hardy                     | Districts                   |                           |               |                    |                    |                  | 3  |
| Jamez River              |                 |                           |                             |                           |               |                    |                    |                  | 4  |
| Chesapeake and Ohio Ry.  |                 |                           |                             |                           |               |                    |                    |                  | 5  |
| U.S. No. 60              |                 |                           | (Pocahontas Trail)          |                           |               |                    |                    |                  | 6  |
| Va. No. 168              |                 |                           |                             |                           |               |                    |                    |                  | 7  |
|                          |                 |                           |                             |                           |               |                    |                    |                  | 8  |
| White Shoal Light        |                 |                           |                             |                           |               |                    |                    |                  | 9  |
| Goodwin Point            |                 |                           |                             |                           |               |                    |                    |                  | 10 |
| Pagan River              |                 |                           |                             |                           |               |                    |                    |                  | 11 |
| Days Point               |                 |                           |                             |                           |               |                    |                    |                  | 12 |
| Williams Creek           |                 |                           |                             |                           |               |                    |                    |                  | 13 |
| Tormentor Creek          |                 |                           |                             |                           |               |                    |                    |                  | 14 |
| Fort Boykin (ruins)      |                 |                           |                             |                           |               |                    |                    |                  | 15 |
| Blunt Point              |                 |                           |                             |                           |               |                    |                    |                  | 16 |
| Daysville                |                 |                           |                             |                           |               |                    |                    |                  | 17 |
| Deep Creek               |                 |                           |                             |                           |               |                    |                    |                  | 18 |
| Manokville               |                 |                           |                             |                           |               |                    |                    |                  | 19 |
| Baptist Union Chapel     |                 |                           |                             |                           |               |                    |                    |                  | 20 |
| Newport News Prison Farm |                 |                           |                             |                           |               |                    |                    |                  | 21 |
| Warwick River            |                 |                           |                             |                           |               |                    |                    |                  | 22 |
| Lands End                |                 |                           | (point)                     |                           |               |                    |                    |                  | 23 |
| Jail Point               |                 |                           |                             |                           |               |                    |                    |                  | 24 |
| Jail Creek               |                 |                           |                             |                           |               |                    |                    |                  | 25 |
| Nella Creek              |                 |                           |                             |                           |               |                    |                    |                  | 26 |
| Ford Creek               |                 |                           |                             |                           |               |                    |                    |                  | 27 |
| Marahy Point             |                 |                           |                             |                           |               |                    |                    |                  | 28 |

T-8312

Remarks

2  
Decisions

|    |                   |        |
|----|-------------------|--------|
| 1  |                   | 371765 |
| 2  |                   | "      |
| 3  |                   | "      |
| 4  |                   | "      |
| 5  |                   | "      |
| 6  |                   | "      |
| 7  |                   | "      |
| 8  |                   | "      |
| 9  | Pending with USGB | "      |
| 10 |                   | "      |
| 11 |                   | "      |
| 12 |                   | "      |
| 13 |                   | "      |
| 14 |                   | "      |
| 15 |                   | "      |
| 16 |                   | "      |
| 17 |                   | "      |
| 18 |                   | "      |
| 19 |                   | 370764 |
| 20 |                   |        |
| 21 |                   |        |
| 22 |                   |        |
| 23 |                   |        |
| 24 |                   |        |
| 25 |                   |        |
| 26 |                   |        |
| 27 |                   |        |

# GEOGRAPHIC NAMES

Survey No. T-8312

| 2 | Name on Survey                | A                              | B | C | D | E | F | G | H | K |    |
|---|-------------------------------|--------------------------------|---|---|---|---|---|---|---|---|----|
|   | <u>Swash Hole</u>             | ✓                              |   |   |   |   |   |   |   |   | 1  |
|   | <u>Swash Hole Islands</u>     | ✓                              |   |   |   |   |   |   |   |   | 2  |
|   | <u>Fort Rustis</u>            | ✓                              | ✓ |   |   |   |   |   |   |   | 3  |
|   | <u>Mulberry Island</u>        | ✓                              | ✓ |   |   |   |   |   |   |   | 4  |
|   | <u>Thorofare</u>              | ✓                              |   |   |   |   |   |   |   |   | 5  |
|   | <u>Thorofare Island</u>       | ✓                              | ✓ |   |   |   |   |   |   |   | 6  |
|   | <u>Thorofare Point</u>        | ✓                              |   |   |   |   |   |   |   |   | 7  |
|   | <u>Hoops Landing</u>          | ✓                              | ✓ |   |   |   |   |   |   |   | 8  |
|   | <u>Lukas Creek</u>            | ✓                              | ✓ |   |   |   |   |   |   |   | 9  |
|   | <u>Colony Road</u>            | ✓                              | ✓ |   |   |   |   |   |   |   | 10 |
|   | <u>Menchville Road</u>        | ✓                              | ✓ |   |   |   |   |   |   |   | 11 |
|   | <u>Mennonite Colony</u>       | ✓                              |   |   |   |   |   |   |   |   | 12 |
|   | <u>Oyster Point</u>           | ✓                              |   |   |   |   |   |   |   |   | 13 |
|   |                               | (village: write point in full) |   |   |   |   |   |   |   |   |    |
|   | <u>Sluice Mill Pond</u>       | ✓                              | ✓ |   |   |   |   |   |   |   | 14 |
|   | <u>Denbigh Baptist Church</u> | ✓                              | ✓ |   |   |   |   |   |   |   | 15 |
|   | <u>Denbigh Church</u>         | ✓                              | ✓ |   |   |   |   |   |   |   | 16 |
|   | <u>Providence Church</u>      | ✓                              | ✓ |   |   |   |   |   |   |   | 17 |
|   | <u>Warwick Church</u>         | ✓                              | ✓ |   |   |   |   |   |   |   | 18 |
|   | <u>Camp Patrick Henry</u>     | ✓                              | ✓ |   |   |   |   |   |   |   | 19 |
|   |                               |                                |   |   |   |   |   |   |   |   | 20 |
|   |                               |                                |   |   |   |   |   |   |   |   | 21 |
|   |                               |                                |   |   |   |   |   |   |   |   | 22 |
|   |                               |                                |   |   |   |   |   |   |   |   | 23 |
|   |                               |                                |   |   |   |   |   |   |   |   | 24 |
|   |                               |                                |   |   |   |   |   |   |   |   | 25 |
|   |                               |                                |   |   |   |   |   |   |   |   | 26 |
|   |                               |                                |   |   |   |   |   |   |   |   | 27 |

Names underlined in red approved  
by L. Holt on 6/20/74



## 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.  
published quadrangle at 1:20,000 scale  
Black and white cloth-mounted copy of the map manuscript. 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, outlines.

Descriptive Report.

Division.

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 Section.

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.

## DIVISION OF CHARTS

### SURVEYS BRANCH

#### REVIEW OF AIR PHOTOGRAPHIC SURVEY T- 8312

#### MULBERRY ISLAND 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

The nearest horizontal accuracy test was run in quadrangle T-8213.

The nearest vertical tests were run in quadrangles T-8205, T-8311 and T-8317.

#### 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-497  | 1:20,000 | 1853    |
| T-1265 | 1:20,000 | 1871-72 |
| T-1266 | 1:20,000 | 1871-73 |

#### Comparison with Nautical Charts Nos. 529

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:

The details of T-8312 are complete and adequate for chart correction.

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 the review of this map manuscript.

Reviewed June 9, 1944 By Anne M. Hartow  
under direction of D. H. Benson (per D.M.)

Inspected by B. G. Jones B.G. Jones 7/46

Examined and approved:

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

~~Chief, Topography Section~~

Robert W. King  
Chief, Div. of Charts  
Nautical Chart Branch  
Raymond P. Egan  
Chief, Div. of Coastal  
Surveys



## STRIKE OUT ONE

Washington Office  
November 8, 1949

The positions given have been checked after listing by C. Thomsen

**Chief of Party.**

This form shall be returned in accordance with Hydrographic Manual pages 900 to 904



# NAUTICAL CHARTS BRANCH

**SURVEY NO.** \_\_\_\_\_

## Record of Application to Charts

[illegible]

**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.**