

8154

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|                                 |                       |
|---------------------------------|-----------------------|
| Form 504                        |                       |
| U. S. COAST AND GEODETIC SURVEY |                       |
| DEPARTMENT OF COMMERCE          |                       |
| DESCRIPTIVE REPORT              |                       |
| Type of Survey                  | Topographic           |
| Field No.                       | Office No. T-8154     |
| LOCALITY                        |                       |
| State                           | Maryland and Virginia |
| General locality                | Chesapeake Bay        |
| Locality                        | Girdletree Quadrangle |
| N3800-W7522.5/7.5               |                       |
| 194. 2                          |                       |
| CHIEF OF PARTY                  |                       |
| F. L. Gallen                    |                       |
| Fred. L. Peacock                |                       |
| LIBRARY & ARCHIVES              |                       |
| DATE February 20, 1945          |                       |

B-1870-1 (1)

338

## DATA RECORD

T-8154

Quadrangle (II):

Project No. (II):

CS 278B

Field Office:  
War Mapping Field Party No.1Chief of Party: *F. L. Gallen*  
~~Lieut. Comdr. William D. Patterson~~Compilation Office:  
Baltimore Field OfficeChief of Party:  
Commander Fred. L. PeacockInstructions dated (II III):  
March 4, 27; June 5, 24; August 13;  
September 4; 1942Copy filed in Descriptive  
Report No. T- (VI)Completed survey received in office: *1/7/43*Reported to Nautical Chart Section: *1/43*Reviewed: *5/13/43*  
~~7/12/43~~ Applied to chart No. Date:Redrafting Completed: *6/14/43*Registered: *2/16/45*Published: *12/14/43*Compilation Scale:  
 $1:20,000 \times .986 = 1:19,720$ Published Scale: *1:31,680*Scale Factor (III):  
1.014Geographic Datum (III):  
N.A. 1927, (adj)

Datum Plane (III): Mean Sea Level

Reference Station (III): *KleJ, 1942*

|                                  |                   |                                   |                              |
|----------------------------------|-------------------|-----------------------------------|------------------------------|
| <i>38° 05' 47.817"</i>           | <i>1474.3 m</i>   | <i>75° 26' 57.309"</i>            | <i>1396.2 m</i>              |
| Lat.: <del>38° 05' 47.818"</del> | <del>1474.3</del> | Long.: <del>75° 26' 57.304"</del> | <del>1396.3</del>            |
|                                  | <i>(375.6)</i>    |                                   | Adjusted                     |
|                                  |                   |                                   | <del>(65.7)</del> Unadjusted |
|                                  |                   |                                   | <i>(65.6)</i>                |

State Plane Coordinates (VI):

X =

*NOT COMPUTED*  
*Not computed*  
*J.H.S.*

Y =

Military Grid Zone (VI) *A*



PHOTOGRAPHS (III)

| <u>Number</u>              | <u>Date</u> | <u>Time</u>    | <u>Scale</u> | <u>Stage of Tide</u> |
|----------------------------|-------------|----------------|--------------|----------------------|
| <u>Nine Lens</u>           |             |                |              |                      |
| 8702 to 8705 incl.         | 4/14/42     | 12:00 to 12:04 | 1:20,000     | 1.4 above M.L.W.     |
| 8726 to 8728 incl.         | 4/14/42     | 12:42 to 12:51 | 1:20,000     | 0.3 above M.L.W.     |
| <u>Single Lens</u>         |             |                |              |                      |
| 5-216 to 5-219 incl.       | Unknown     | Unknown        | 1:20,000     | Unknown              |
| 6-137, 6-138               | Unknown     | Unknown        | 1:20,000     | Unknown              |
| <u>2" x 2" Single Lens</u> |             |                |              |                      |
| ANO 23-11                  | 5/17/38     | Unknown        | 1:20,000     | Unknown              |
| ANO 23-21 & 22             | 5/17/38     | Unknown        | 1:20,000     | Unknown              |
| ANO 23-36 to 37            | 5/17/38     | Unknown        | 1:20,000     | Unknown              |
| ANN 25-39 to 94 incl       | 6/6/38      | Unknown        | 1:20,000     | Unknown              |
| ANN 26-4 to 12 incl        | 6/6/38      | Unknown        | 1:20,000     | Unknown              |
| ANN 26-15 to 21 incl       | 6/6/38      | Unknown        | 1:20,000     | Unknown              |
| ANN 26-66 to 74 incl       | 6/6/38      | Unknown        | 1:20,000     | Unknown              |

Tide from (III): Sandy Hook, N.J. with time correction for Franklin City, Virginia

Mean Range: 1.0 ft.

Spring Range: 1.2 ft.

Camera: (Kind or source)

U.S. Coast & Geodetic Survey Nine Lens Camera (focal length 8 1/4") Special  
Single Lens Aerial Mapping Camera (focal length 4") Commercial Contract

Field Inspection by:

War Mapping Field Party No.1

Lieut. Comdr. William D. Patterson, In Charge

date:

Spring and Summer, 1942

Field Edit by: Louis Levin, photo. Aid

date: Jan. 1943

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

Date as given in above mentioned photographs.

|                      |         |         |          |         |
|----------------------|---------|---------|----------|---------|
| ANN 28-59 to 66 incl | 6/25/38 | Unknown | 1:20,000 | Unknown |
| ANN 29-59 to 66 incl | 7/3/38  | Unknown | 1:20,000 | Unknown |

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

" " " checked by: Washington Office date: Unknown

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

Control checked by: James Brazil date: 8/26/42

Radial Plot by: J. Edward Deal, Jr. From September 2 to  
date: September 4, 1942

Detailed by: Charles N. Hamilton date: 10/10/42 to 12/15/42

Reviewed in compilation office by: Henry P. Eichert date: 12/30/42 to 1/4/43

Elevations on Field Edit Sheet

checked by: Louis Levin, photo. Aid

date: 4/27/43



### STATISTICS (III)

Land Area (Sq. Statute Miles): 54

Shoreline (More than 200 meters to opposite shore): 4 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 5 Statute Miles

Number of Recoverable Topographic Stations established: None

Number of Temporary Hydrographic Stations located by radial plot: One

Leveling (to control contours) - miles: 72

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-8154  
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 North by the  $38^{\circ} 07' 30''$  parallel, which lies about two miles north of the village of Klj Grange, Maryland, on the east by the  $75^{\circ} 22' 30''$  meridian, which is just west of the village of Bayview, Maryland, on the south by Chincoteague Bay and the  $38^{\circ} 00' 00''$  parallel, and on the west the  $75^{\circ} 30' 00''$  meridian, which lies about  $1/2$  mile west of the village of Goodwill, Maryland.

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

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 Glenn B. Woolley, Sr. Engineering Aid, on single-lens photographs.

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

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

The Bench Marks located within the area covered by this quadrangle were established by the U. S. Coast and Geodetic Survey and the U. S. Geological Survey.

A supplemental level network was established by Glenn B. Woolley, Sr. Engineering Aid, and Wendell Bever, Photogrammetric 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.



26. CONTROL:

Six triangulation Stations fall within the detail limits of this map manuscript.

They are:

(Railroad)

Maryland ~~and~~ Virginia, State Monument, 1907  
Money, 1907  
Davis, 1932 ~~and 1933~~  
Purnell, (V.F.C.) 1933  
Klej, 1942  
\*Guy, 1933 (No position available)

\*This compilation office does not have the geographic position of triangulation station Guy, 1933. Inasmuch as the pricking card submitted by the field inspection party could not be used, this triangulation station could not be pricked correctly on the nine lens photographs. Due to sufficient control, it was not necessary to use Guy, 1933.\*

The following triangulation stations fall within two minutes outside the detail limits of this map manuscript:

(Snead 2?)

Snead, 1909, 1932  
Carey, 1942  
Cockle, 1933, V.F.C. (F.T.S. used)

In order to obtain additional radial points, T-8153 to the west of T-8154 was joined with T-8154. Nine lens photograph numbers 8797 and 8798, the centers of which fall on T-8153, were used for additional radial cuts. T-8155 to the east of T-8154 was also joined with T-8154. Nine lens photograph number 8729, the center of which falls on T-8155, was used for additional radial cuts.

27. 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, subproject CS 278B previously submitted.

28. DETAILING:

Nine lens photographs were used for practically all the detailing of this map manuscript. 9" x 9" single lens photographs were occasionally used for supplementary reference and for detailing, in cases where definition on the nine lens photographs was poor. These 9" x 9" single lens photographs were obtained from the Agricultural Adjustment Administration.

X This is a Virginia Fisheries Comm. monument, the position of which was found to be erroneous by Geodesy Section. As the field party did prick the location of the monument on a field print it was transferred to the office prints and radial plotted by the reviewer, being shown as a topo. station by a circle. (5-219)



28. DETAILING (Continued)

The U.S. C & G S nine lens and single lens field prints satisfactorily covered the entire area of this manuscript.

29. SUPPLEMENTAL DATA:

Previous surveys T-311, T-522, T-524, T-704, T-723, T-763, T-890B, T-2896 cover portions of the area of this map manuscript. However, copies of these surveys are not available for comparison with T-8154. See office review.

30. MEAN HIGH WATER LINE:

The mean high water line was determined from the field inspection and by stereoscopic examination of the office photographs.

31. LOW WATER AND SHOAL LINES:

There are no low water or shoal lines either indicated by field inspection or discernible on the photographs within the limits of this survey.

32. DETAILS: OFFSHORE FROM THE HIGH WATER LINE

Piling was shown as indicated on the field inspection.

33. WHARVES AND SHORELINE STRUCTURES:

All wharves, docks, and piers were detailed wherever they could be seen on the nine lens photographs and when indicated by the field inspection.

34. LANDMARKS AND AIDS TO NAVIGATION:

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

35. HYDROGRAPHIC CONTROL:

There are no Recoverable Hydrographic or Topographic stations within the limits of this map manuscript.

One Temporary Hydrographic station falls within the limits of this map manuscript. The description of this Temporary Hydrographic station is shown on the discrepancy overlay.

37. AZIMUTH REFERENCE MONUMENT:

Klej Azimuth reference monument falls within the detailed



37. AZIMUTH REFERENCE MONUMENT (Continued)

limits of this manuscript. Form No. 524 is submitted with this report.

38. DISCREPANCY OVERLAY:

A discrepancy overlay has been prepared to accompany this map manuscript. On it are noted discrepancies between field inspection submitted by different field inspection units, general notes and requests for additional information needed to make this map manuscript complete. The names of bench marks have been shown for use of the Baltimore Compilation Office.

39. HORIZONTAL ACCURACY:

Well defined and less well defined points of detail as shown on this manuscript are believed to be within the limits of error as defined in paragraph 54 of instructions for War Mapping Project CS 278, dated March 4, 1942.

40. RECOMMENDATION FOR FUTURE SURVEY:

The planimetric detail as presented on this map manuscript is believed complete but is subject to field edit for corrections, additions, and deletions.

41. JUNCTIONS:

The following junctions have been made:

T-8130 to the north is complete. T-8153 to the west and T-8155 to the east are completed with some corrections and additions made. T-8158 to the south. Inasmuch as this manuscript is being compiled by the Tampa, Florida Office, a tracing of the southern boundary of T-8154 was forwarded to that office in order to make a junction.

42. REMARKS:

The greater portion of this manuscript consists mainly of wooded and cultivated areas. There is a small part of the Pocomoke River in the extreme northwestern area and Chincoteague Bay in the southeastern area of this manuscript.

The Philadelphia Wilmington and Baltimore R.R., a branch of the Pennsylvania line, crosses the eastern area of this manuscript by way of Gridletree, Md., Stockton, Md., Greenbackville, Md., and Franklin City, Virginia.

The topographic features of this manuscript are adequately described in the descriptive report submitted by the field inspection party.



44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

A comparison with the Snow Hill Quadrangle U.S. Geological Survey, edition of 1901, was attempted. Due to scale difference, no accurate comparison could be made.

45. COMPARISON WITH NAUTICAL CHARTS:

In comparing this manuscript with Chart No. 1220, issued in May, 1938, no changes in detail are noticeable. Due to scale difference, no accurate comparison could be made.

This map manuscript will adequately portray topographic detail and shoreline structures and should supersede the present charted information of this character after the field edit has been made.

Respectfully submitted,

Charles N. Hamilton  
Charles N. Hamilton  
Photogrammetric Aid

Map Manuscript, Discrepancy Overlay  
and Descriptive Report Reviewed by:

William H. VanLoon  
William H. VanLoon  
Pr. Photogrammetric Aid

Compilation of Map Manuscript  
Supervised by:

Joseph Steinberg  
Joseph Steinberg  
Ass't. Photogrammetric Engineer

and

J. Edward Deal, Jr.  
J. Edward Deal, Jr.  
Ass't. Photogrammetric Engineer

Approved and Forwarded:

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

FIELD EDIT REPORT  
QUADRANGLE T-8154  
Project CS-278-B  
F. L. Gallen, Chief of Party

1. Cultivated and wooded areas are about evenly distributed on this sheet. Marsh areas are to be found along most of the streams.
15. The bridge classification was carried out in accordance with the instructions.
17. The 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 obtained from a special report CS-278-B submitted by A. J. Wraight, Photogrammetric Aid.
38. No discrepancy overlay was received by the field edit party. However, the map manuscript was carefully examined and all necessary changes were made in the field.
46. All additions, deletions and corrections were made on the map manuscript and transferred to the smooth copy after the completion of the field edit work.

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

| <u>FEATURES</u>                             | <u>COLORS</u> |
|---|---------------|
| Additions, bench marks and level elevations | Black         |
| Deletions                                   | Green         |
| Drainage                                    | Blue          |
| Political boundaries                        | Purple        |

47. The position and amount of detail on this map manuscript is believed to be complete and accurate.
48. A report is attached for the horizontal accuracy test on this sheet. A vertical accuracy test was run in quadrangle T-8155 on which the contouring was done by the same topographer.

Submitted by

*Louis Levin per F. L. G.*  
Louis Levin,  
Photogrammetric Aid

Approved by:

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



TESTS FOR HORIZONTAL ACCURACY  
QUADRANGLE T-8158<sup>+</sup>  
PROJECT CS-2784B

This test consists of a traverse between triangulation station CAREY (1942) and triangulation station HOLT (1932). The traverse is 10.24 statute miles in length and contains 24 test points, 7 of which are within the boundaries of this quadrangle. The traverse closure is 1 part 6,240 and the discrepancy of 2.71 meters was adjusted through the traverse. The test points are referred to in the computations as P.P. No. (Photograph Point No.) and test points ~~are~~<sup>are</sup> scaled from the map manuscript are referred to as M.M. No.

TABULATION OF TEST POINTS

| Description<br>of Point                           | Test Point<br>No.           | Lat.                         | Long.                        | Difference<br>in M.M. |
|---|-----------------------------|------------------------------|------------------------------|-----------------------|
| *Inter. of road &<br>road, 90 degrees             | P.P. No. 10<br>M.M. No. 10  | 38-07-597.7<br>38-07-598.0   | 75-27-382.8<br>75-27-396.2   | .670                  |
| Inter. of road &<br>road, 90 degrees              | P.P. No. 11<br>M.M. No. 11  | 38-06-1755.3<br>38-06-1762.0 | 75-27-1121.4<br>75-27-1114.0 | .499                  |
| Inter. of road &<br>woods, 90 degrees             | P.P. No. 12<br>M.M. No. 12  | 38-06-1411.9<br>38-06-1419.2 | 75-28-372.6<br>75-28-367.0   | .460                  |
|   | P.P. No. 13<br>Not compiled | 38-06-723.5                  | 75-28-1247.4                 |                       |
| Inter. of road &<br>road, 90 degrees              | P.P. No. 14<br>M.M. No. 14  | 38-06-102.6<br>38-06-103.0   | 75-29-212.2<br>75-29-212.2   | .008                  |
| Inter. of road &<br>road, 90 degrees              | P.P. No. 15<br>M.M. No. 15  | 38-05-1357.0<br>38-05-1357.8 | 75-29-745.5<br>75-29-747.0   | .085                  |
| Inter. of road &<br>road, 90 degrees              | P.P. No. 16<br>M.M. No. 16  | 38-05-1207.0<br>38-05-1213.3 | 75-29-1140.3<br>75-29-1120.5 | 1.025                 |
| *M.M. No. 10 could only be located approximately. |                             |                              |                              |                       |

It may be noted test point 13 was not compiled; this point could not be located on the compilation and with the exception of M.M. No. 10 & 16, the remaining points are all well defined and the map manuscript error is less than .5 mm at these points tested. The horizontal accuracy test of this map is within the requirements of the instructions.

Submitted by,

*Wendell Bever*

Approved by,

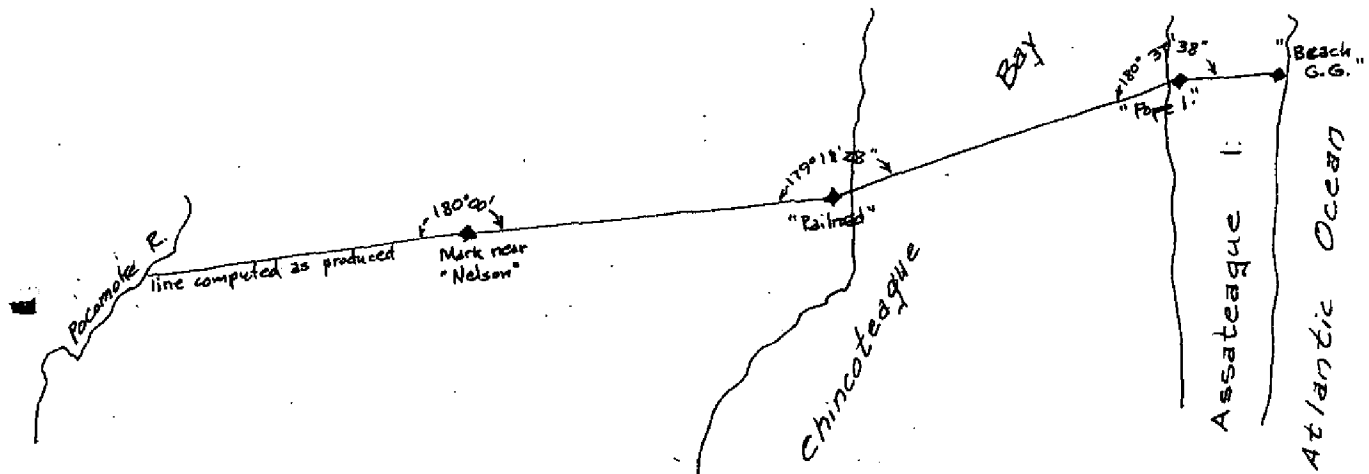
*F.L. Gallen*

F.L. Gallen, Chief of Party

Maryland-Virginia Boundary Line from Pocomoke River  
to Atlantic Ocean

The boundary between Maryland and Virginia in the area known as the "Eastern Shore" has been the subject of discussion and dispute since very early colonial days. A portion of it was marked by two arbiters in 1668. This has been called the "Calvert and Scarborough Line" and was marked with blazed trees. Numerous commissions since have recognized the validity of this location although it conformed neither in position nor direction with the calls of Lord Baltimore's grant. However, in 1883, it was decided that the line should be recovered and remarked with permanent monuments. This was a development of the proceedings of an arbitration commission which in 1877 defined the location of the line from the mouth of the Potomac River, across Chesapeake Bay, Smith Island, etc., Tangier and Pocomoke Sounds, up the Pocomoke River to the Calvert and Scarborough Line and thence with that line to the Atlantic Ocean. The line was thereby definitely defined and this proceeding is known as the "Black and Jenkins Award". It only remained for the line to be marked on the ground and this was undertaken by the commission of 1883, (Commissioners Aydelott of Maryland and Bagwell of Virginia) who obtained the services of Lt. Frederick V. Abbot, Corps of Engineers, U. S. Army to perform the surveying operations. In this connection he had to recover all marks remaining from the original Calvert and Scarborough Survey, and run the straight line that most closely conformed to the marks found. This was achieved by running a trial line and connecting to all existing marks found along the way, computing from these data the line to be adopted, and setting the line marks by computed offsets from the trial line. This line was produced across Chincoteague Bay by a devious astronomical method and two marks placed east of Chincoteague Bay. Altogether, eight granite monuments were set on the recovered Calvert and Scarborough Line and these mark the present position of the line. As stated above, these were supposed to fall on a straight line. By triangulation, geographic positions are now available for four of these marks, one about midway between the Pocomoke River and Chincoteague Bay, one on the west shore of Chincoteague Bay, and the two marks east of Chincoteague Bay. By computation, the two marks west of Chincoteague Bay determine a line very nearly parallel to the line of the two marks east of the Bay. However, if the line of the monuments west be produced easterly across the Bay, it will fall about 150 meters south of the marks on the east side. In other words, a line connecting the marks on each shore of the Bay will vary about 40 minutes in azimuth from the line as determined on either side of the Bay.





However, by examination of the report of the work, it is concluded that the method used for extending the line across country from the Pocomoke River to the west shore of Chincoteague Bay was very sound and, as described in the report, seems to have been carefully done. Therefore, for the purpose of plotting the boundary on the topographic quadrangles, it is assumed that all six monuments in that portion of the line were placed in a straight line within the limits of plotting and it is assumed to be in the position and direction of the line connecting the two points recovered. Because of the devious means used to extend the line across Chincoteague Bay, it is assumed that the greatest possibility of error occurred in that line and that there <sup>in that vicinity</sup> lies the only major deviation from a straight line. The boundary, therefore, will be laid down as a broken line connecting the three easterly points recovered, which constitute all the marks that were set in that area.

The details of the methods used to recover and monument the line, together with maps and descriptions of the marks set, were found in the report submitted by Lieut. Abbot to the Commissioners in 1883. The original manuscript and maps were found filed in the vaults of the Commissioner of the Land Office, Hall of Records, St. John's College, Annapolis, Maryland, from which source photostat copies of said report were obtained, which are now filed in the Library of the Coast and Geodetic Survey, reference:

Gsj 857

A 13



The following positions have been determined by triangulation for points on the boundary line - all granite monuments:

\* "Mark 1 East", Reference mark to triangulation station "Nelson, 1932"  
 38°00'05".303 ✓  
 75°32'26".528 ✓

see desc for A NELSON, Desc. #376, pg. 1

Azimuth to "Mark 47 East" - 263°58'56".8 ✓

Distance " " " - 44210 feet ✓

(44343 feet in Abbot Report)

Approximately 160 meters (525 feet) east of U.S. Highway 13

\* "Mark 47 East", Triangulation Station "Railroad, 1907"

38°00'50".765 ✓

75°23'17".165 ✓

Desc. #376, pg. 44 ("MARYLAND-VIRGINIA (RAILROAD) 1907)

see also A DAVIS, Desc. #376, pg. 1

Azimuth to "Mark 1 East" - 84°04'35".1 ✓

Azimuth to "Mark 48 East" - 263°23'03".3 (38,115 feet)

Near western shore of Chincoteague Bay

\* "Mark 48 East", Triangulation Station "Maryland & Virginia (Pope Island), 1907"

38°01'33".912 ✓

75°15'24".012 ✓

Desc. #376, pg. 1 (POPE ISLAND (MARYLAND-VIRGINIA) 1907)

Azimuth to "Mark 47 East" - 83°27'54".8 ✓

Azimuth to "Mark 49 East" - 264°05'43".5 (2,969 feet)

\* "Mark 49 East", Triangulation Station "Maryland & Virginia, Beach Coast Guard, 1907"

38°01'36".930 ✓

75°14'47".105 ✓

Desc. #377, pg. 18 (MARYLAND-VIRGINIA (LIFE SAVING STATION BEACH) 1907)

Azimuth to "Mark 48 East" - 84°06'06".2 ✓

NORTH AMERICAN DATUM, 1927

#### Bibliography

Gsj 857, L 48 "Southern Boundary of Maryland" Thomas J. Lee, Commissioner in 1860.

Gsj 857, B 66, Acc. No. 18505, "Opinions and Award of Arbitrators, Maryland and Virginia Boundary Line" (Black and Jenkins Award)

Hydrographic Sheet H-1319 and Descriptive Report.

Gsj 857, H 69, Acc. No. 18504 "Report of the Commissioner on the part of Maryland for the Re-locating and Re-marking of the Boundary Line between Maryland and Virginia in in Tangier and Pocomoke Sounds. Hodson and Gunter, Commissioners, 1898"

\* Geographic Positions listed on page 503 (Maryland G.P.'s)  
 MD Plane Coordinates, pp 188, 189



Gsj 863 "Joint Report of Engineers on Re-locating and Re-marking  
Maryland-Virginia Boundary Line across Tangier and Pocomoke  
Sounds, December 1916, Ruediger and Earle, Engineers.

*Ralph Moore Berry*

Ralph Moore Berry,  
Assistant Cartographic Engineer

4/13/43

Chart letter no. 206, 1943

~~TO BE CHARTED~~ } STRIKE OUT ONE  
~~TO BE DELETED.~~

## LANDMARKS FOR CHARTS PERMANENT AIDS TO NAVIGATION

**Omernick, Va.**

1/19/43, 19

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(deleted from)~~ the charts indicated.

**The positions given have been checked after listing.**

**H. L. Gallen**

*Chief of Party.*

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

# GEOGRAPHIC NAMES LIST FOR T-8154

- ✓ Bachelors Branch
- ✓ Beaverdam Creek - *Not shown on map manuscript*
- ✓ Bessen Creek
- ✓ Bessen Landing
- ✓ Betheden Church
- ✓ Big Mill Pond
- ✓ Bunn Ditch
- ✓ Carey Creek *Not shown on map manuscript*
- ✓ Corkers Creek
- ✓ Franklin City
- ✓ Girdletree
- ✓ Goodwill
- ✓ Goose Point
- ✓ Greenbackville
- ✓ Guys Point
- ✓ Guys Point Gut
- ✓ Hancock Creek
- ✓ Jones Ditch
- ✓ Kelly Mill Branch
- ✓ Kelly Mill Pond
- ✓ Klej Grange
- ✓ Little Mill Creek
- ✓ Little Mill Run
- ✓ Little Mill Pond
- ✓ Marshall Ditch
- ✓ Mattaponi Creek
- ✓ Milburn Landing
- ✓ Paradie Branch
- ✓ Payne Ditch
- ✓ Philadelphia, Wilmington & Baltimore Railroad *(Pennsylvania R.R.)*
- ✓ Pikes Creek
- ✓ Pilchard Creek
- ✓ Pocomoke State Forest
- ✓ Pocomoke State Game Refuge
- ✓ Powell Creek / *or Lindsay Cr. ? (Ch. 1220)*
- ✓ Powell Pond
- ✓ Purnell Bay
- ✓ Rayfield Ditch
- ✓ Redden Creek
- ✓ Riley Creek
- ✓ Sand Branch
- ✓ Scarboro Branch
- ✓ Scarboro Creek
- ✓ Schooner Canal
- ✓ Selby Mill Branch
- ✓ Spring Hill Branch
- ✓ Steel Pond
- ✓ Stockton ✓
- ✓ Swansgut Creek
- ✓ Tarr Branch
- ✓ Ward Ditch
- ✓ Welbourne
- ✓ Willow Grove
- ✓ Willow Grove Creek
- Holly Swamp*

*Chincoteague Bay  
Pocomoke River  
Accomack Co.  
Worcester Co.*



Following names are either missing or else the feature is not shown on the manuscript map:

|         |         |                       |
|---------|---------|-----------------------|
| Page 1: | line 9: | Schooner Canal        |
| " 2:    | " 8:    | Redden Creek          |
| " "     | " 11:   | Pilchard Creek        |
| " "     | " 17:   | Milburn Landing       |
| " "     | " 22:   | Beaverdam Creek       |
| " "     | " 24:   | Pocomoke State Forest |
| " "     | " 26:   | Carey Creek           |
| " 3:    | " 1:    | Mattaponi Creek       |

All of the above features, if they now exist, can be located with aid of the name sheet prepared on the old SNOW HILL quadrangle.

L.H.

T-8154

No. 1

Remarks.

Decisions

|    |  |             |
|----|--|-------------|
| 1  |  | 380753      |
| 2  |  | "           |
| 3  |  | " USGB      |
| 4  |  | " "         |
| 5  |  | "           |
| 6  |  | "           |
| 7  |  | " USGB      |
| 8  |  | "           |
| 9  |  | "           |
| 10 |  | "           |
| 11 |  | "           |
| 12 |  | "           |
| 13 |  | "           |
| 14 |  | 379754 USGB |
| 15 | Referred to USGB: apply <del>Lindsay Creek</del> instead<br>of Powell Creek pending its decision | 380754      |
| 16 |  | "           |
| 17 |  | "           |
| 18 | Recent decision  | " USGB      |
| 19 | " "  | " "         |
| 20 |  | "           |
| 21 |  | "           |
| 22 |  | "           |
| 23 |  | "           |
| 24 |  | "           |
| 25 |  | "           |
| 26 |  | "           |
| 27 |  | "           |
| 28 |  |             |



# GEOGRAPHIC NAMES

Survey No. T-8154

GIRDLETREE quadrangle

No. 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                |    |
| <u>Franklin City</u>     | ✓               |                           |                             |                           |               |                    |                    |                  | 1  |
| <u>Greenbackville</u>    | ✓               |                           |                             |                           |               |                    |                    |                  | 2  |
| <u>Goose Point</u>       | ✓               |                           |                             |                           |               |                    |                    |                  | 3  |
| <u>Purnell Bay</u>       | ✓               |                           |                             |                           |               |                    |                    |                  | 4  |
| <u>Guys Point</u>        | ✓               |                           |                             |                           |               |                    |                    |                  | 5  |
| <u>Pikes Creek</u>       | ✓               |                           |                             |                           |               |                    |                    |                  | 6  |
| <u>Scarboro Creek</u>    | ✓               |                           |                             |                           |               |                    |                    |                  | 7  |
| <u>Guys Point Gut</u>    | ✓               |                           |                             |                           |               |                    |                    |                  | 8  |
| <u>Schooner Canal</u>    |                 |                           |                             |                           |               |                    |                    |                  | 9  |
| <u>Bessen Landing</u>    |                 |                           |                             |                           |               |                    |                    |                  | 10 |
| <u>Bessen Creek</u>      | ✓               |                           |                             |                           |               |                    |                    |                  | 11 |
| <u>Hancock Creek</u>     | ✓               |                           |                             |                           |               |                    |                    |                  | 12 |
| <u>Riley Creek</u>       | ✓               |                           |                             |                           |               |                    |                    |                  | 13 |
| <u>Swanscut Creek</u>    | ✓               |                           |                             |                           |               |                    |                    |                  | 14 |
| <u>Powell</u>            | ✓               |                           |                             |                           |               |                    |                    |                  | 15 |
| <u>Lindsay Creek</u>     | ✓               |                           |                             |                           |               |                    |                    |                  | 16 |
| <u>Stockton</u>          | ✓               |                           |                             |                           |               |                    |                    |                  | 17 |
| <u>Girdletree</u>        | ✓               |                           |                             |                           |               |                    |                    |                  | 18 |
| <u>Little Mill Pond</u>  | ✓               |                           |                             |                           |               |                    |                    |                  | 19 |
| <u>Big Mill Pond</u>     | ✓               |                           |                             |                           |               |                    |                    |                  | 20 |
| <u>Goodwill</u>          | ✓               |                           |                             |                           |               |                    |                    |                  | 21 |
| <u>Kiej Grange</u>       | ✓               |                           |                             |                           |               |                    |                    |                  | 22 |
| <u>Welbourne</u>         | ✓               |                           |                             |                           |               |                    |                    |                  | 23 |
| <u>Powell Pond</u>       |                 |                           |                             |                           |               |                    |                    |                  | 24 |
| <u>Sand Branch</u>       | ✓               |                           |                             |                           |               |                    |                    |                  | 25 |
| <u>Selby Mill Branch</u> | ✓               |                           |                             |                           |               |                    |                    |                  | 26 |
| <u>Bunn Ditch</u>        | ✓               |                           |                             |                           |               |                    |                    |                  | 27 |
| <u>Ward Ditch</u>        | ✓               |                           |                             |                           |               |                    |                    |                  | 28 |

T-8154

No. 2

Remarks

Decisions

|    |  |           |
|----|--|-----------|
| 1  |  | 380754    |
| 2  |  | "         |
| 3  |  | "         |
| 4  |  | "         |
| 5  |  | "         |
| 6  |  | "         |
| 7  |  | "         |
| 8  |  | "         |
| 9  |  | 380755    |
| 10 |  | "         |
| 11 |  | "         |
| 12 |  | 380754    |
| 13 |  | "         |
| 14 |  | 379756-57 |
| 15 |  | 381754    |
| 16 |  | "         |
| 17 |  | "         |
| 18 |  | "         |
| 19 |  | "         |
| 20 |  | "         |
| 21 |  | "         |
| 22 |  | "         |
| 23 |  | "         |
| 24 |  | "         |
| 25 |  | "         |
| 26 |  | "         |
| 27 |  | 381755    |



# GEOGRAPHIC NAMES

Survey No. T-8154

No. 2

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                |    |
| <u>Steel Pond</u>                 | ✓                  | (settlement)   |                             |                           |               |                    |                    |                  | 1  |
| <u>Payne Ditch</u>                | ✓                  |  |                             |                           |               |                    |                    |                  | 2  |
| <u>Marshall Ditch</u>             | ✓                  |  |                             |                           |               |                    |                    |                  | 3  |
| <u>Little Mill Run</u>            | ✓                  |  |                             |                           |               |                    |                    |                  | 4  |
| <u>Little Mill Creek</u>          | ✓                  |  |                             |                           |               |                    |                    |                  | 5  |
| <u>Paradie Branch</u>             | ✓                  |  |                             |                           |               |                    |                    |                  | 6  |
| <u>Holly Swamp</u>                | ✓                  | (not a swamp area; partly woodland, partly cultivated) |                             |                           |               |                    |                    |                  | 7  |
| <u>Redden Creek</u>               | ✓                  |  |                             |                           |               |                    |                    |                  | 8  |
| <u>Willow Grove</u>               | ✓                  |  |                             |                           |               |                    |                    |                  | 9  |
| <u>Willow Grove Creek</u>         | ✓                  |  |                             |                           |               |                    |                    |                  | 10 |
| <u>Pilchard Creek</u>             | ✓                  |  |                             |                           |               |                    |                    |                  | 11 |
| <u>Rayfield Ditch</u>             | ✓                  |  |                             |                           |               |                    |                    |                  | 12 |
| <u>Jones Ditch</u>                | ✓                  |  |                             |                           |               |                    |                    |                  | 13 |
| <u>Pocomoke River</u>             | ✓                  |  |                             |                           |               |                    |                    |                  | 14 |
| <u>Corkers Creek</u>              | ✓                  |  |                             |                           |               |                    |                    |                  | 15 |
| <u>Betheden Church</u>            | ✓                  |  |                             |                           |               |                    |                    |                  | 16 |
| <u>Milburn Landing</u>            | ✓                  |  |                             |                           |               |                    |                    |                  | 17 |
| <u>Spring Hill Branch</u>         | ✓                  |  |                             |                           |               |                    |                    |                  | 18 |
| <u>Kelly Mill Branch</u>          | ✓                  |  |                             |                           |               |                    |                    |                  | 19 |
| <u>Scarboro Branch</u>            | not shown          |  |                             |                           |               |                    |                    |                  | 20 |
| <u>Kelly Mill Pond</u>            | "                  | "  |                             |                           |               |                    |                    |                  | 21 |
| <u>Beaverdam Creek</u>            | "                  | "  |                             |                           |               |                    |                    |                  | 22 |
| <u>Tarr Branch</u>                | ✓                  |  |                             |                           |               |                    |                    |                  | 23 |
| <u>Pocomoke State Forest</u>      | (at two locations) | ✓  |                             |                           |               |                    |                    |                  | 24 |
| <u>Pocomoke State Game Refuge</u> |                    | ✓  |                             |                           |               |                    |                    |                  | 25 |
| <u>Carey Creek</u>                | not shown          |  |                             |                           |               |                    |                    |                  | 26 |
| <u>Bachelors Branch</u>           | ✓                  |  |                             |                           |               |                    |                    |                  | 27 |

T-8154

No. 3  
Decisions

Remarks.

|    |                                    |                                  |
|----|------------------------------------|----------------------------------|
| 1  |                                    | 381754                           |
| 2  |                                    | 380752                           |
| 3  | Recently adopted official spelling |                                  |
| 4  |                                    |                                  |
| 5  |                                    | Railway Gyide                    |
| 6  |                                    |                                  |
| 7  |                                    |                                  |
| 8  |                                    | Worcester Co. Map, 1935          |
| 9  |                                    | "                                |
| 10 |                                    | "                                |
| 11 |                                    | "                                |
| 12 |                                    |                                  |
| 13 |                                    | Accomack Co. Transp. Map<br>1941 |
| 14 |                                    |                                  |
| 15 |                                    |                                  |
| 16 |                                    |                                  |
| 17 |                                    |                                  |
| 18 |                                    |                                  |
| 19 |                                    |                                  |
| 20 |                                    |                                  |
| 21 |                                    |                                  |
| 22 |                                    |                                  |
| 23 |                                    |                                  |
| 24 |                                    |                                  |
| 25 |                                    |                                  |
| 26 |                                    |                                  |
| 27 |                                    |                                  |



# GEOGRAPHIC NAMES

Survey No. T-8154

No. 3

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                |    |
| Mattaponi Creek  | ✓               |                           |                             |                           |               |                    |                    |                  | 1  |
| Chincoteague Bay   | ✓               |                           |                             |                           |               |                    |                    |                  | 2  |
| Accomack County  | ✓               |                           |                             |                           |               |                    |                    |                  | 3  |
| Worcester County   | ✓               |                           |                             |                           |               |                    |                    |                  | 4  |
| Pennsylvania R.R. (Delaware, Maryland & Virginia Branch) |                 |                           |                             |                           |               | ✓                  |                    |                  | 5  |
|  |                 |                           |                             |                           |               |                    |                    |                  | 6  |
| Political subdivisions:                                  |                 |                           |                             |                           |               |                    |                    |                  | 7  |
| Stockton No. 8   | ✓               | (Md)                      |                             |                           |               |                    |                    |                  | 8  |
| Snow Hill No. 2  | ✓               |                           |                             |                           |               |                    |                    |                  | 9  |
| Atkinson No. 7   |                 |                           |                             |                           |               |                    |                    |                  | 10 |
| Costens No. 1  |                 |                           |                             |                           |               |                    |                    |                  | 11 |
|  |                 |                           |                             |                           |               |                    |                    |                  | 12 |
| Atlantic   |                 | (Va.)                     |                             |                           |               |                    |                    |                  | 13 |
|  |                 |                           |                             |                           |               |                    |                    |                  | 14 |
|  |                 |                           |                             |                           |               |                    |                    |                  | 15 |
|  |                 |                           |                             |                           |               |                    |                    |                  | 16 |
|  |                 |                           |                             |                           |               |                    |                    |                  | 17 |
|  |                 |                           |                             |                           |               |                    |                    |                  | 18 |
|  |                 |                           |                             |                           |               |                    |                    |                  | 19 |
|  |                 |                           |                             |                           |               |                    |                    |                  | 20 |
|  |                 |                           |                             |                           |               |                    |                    |                  | 21 |
|  |                 |                           |                             |                           |               |                    |                    |                  | 22 |
|  |                 |                           |                             |                           |               |                    |                    |                  | 23 |
|  |                 |                           |                             |                           |               |                    |                    |                  | 24 |
|  |                 |                           |                             |                           |               |                    |                    |                  | 25 |
|  |                 |                           |                             |                           |               |                    |                    |                  | 26 |
|  |                 |                           |                             |                           |               |                    |                    |                  | 27 |

Heck 001/27/43

## 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 a 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.

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. This photography was supplemented by use of single-lens photographs. 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 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 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.

## DIVISION OF CHARTS

### SURVEYS BRANCH

#### REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8154

#### GIRDLETREE 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 this descriptive report for a copy of the results of the horizontal accuracy test over this area. This test was accepted as satisfactory. The closest vertical accuracy test was performed on quadrangle T-8155. The results may be found on the field edit sheet for that quadrangle. The test was satisfactory.

#### 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-809  | 1:20,000 | 1860 |
| T-522  | 1:20,000 | 1849 |
| T-524  | 1:20,000 | 1849 |
| T-704  | 1:20,000 | 1857 |
| T-723  | 1:20,000 | 1858 |
| T-763  | 1:20,000 | 1859 |
| T-2896 | 1:20,000 | 1909 |

Except for eight established boundary marks (natural objects) on T-809, this quadrangle is adequate to supersede these old surveys over the common area.

"Snow Hill" 1:62,500 1900 U.S.G.S.

#### Comparison with Nautical Charts No. 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 minor differences in shoreline were noted in comparing the chart with the map manuscript.



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

Difficulty was encountered in the determination of the Maryland-Virginia boundary during review. Following a thorough investigation of this boundary, the reviewer submitted a report concerning the finally adopted position of this boundary line. This report may be found on page 7 of this descriptive report.

With this exception, only minor changes were necessary during the review of this map manuscript.

Reviewed 5/12/43 By Ralph Moore Berry  
under direction of D. H. Benson

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

Examined and approved:

Charles Price  
Chief, Surveys Branch

K.T. Adams  
Chief, Topography Section

J.B. Bond  
Chief, Div. of Charts

G. Hude  
Chief, Div. of Coastal  
Surveys

## NAUTICAL CHARTS BRANCH

SURVEY NO. T-8154

## 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.