<table>
<thead>
<tr>
<th>Field No.</th>
<th>Tangier Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office No.</td>
<td>T-8164</td>
</tr>
<tr>
<td>Locality</td>
<td>N3745-W7552.5/7.5</td>
</tr>
<tr>
<td>State</td>
<td>Maryland</td>
</tr>
<tr>
<td>General locality</td>
<td>Tangier Sound</td>
</tr>
<tr>
<td>Locality</td>
<td>Vicinity of Tangier Island, Chesapeake Bay</td>
</tr>
<tr>
<td>Date</td>
<td>September 29, 1945</td>
</tr>
</tbody>
</table>

**CHIEF OF PARTY**
Lieut. Comdr. F. L. Gallen
Lieut. Comdr. Kenneth G. Crosby
DATA RECORD
T- 8164

Quadrangle (II): Tangier Island, E-W

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

Field Office: Salisbury, Md. Chief of Party: F. L. Gallen

Compilation Office: Tampa, Fla. Chief of Party: K.G. Crosby

Instructions dated (II III): Copy filed in Descriptive

Completed survey received in office: 10/1/42

Reported to Nautical Chart Section: 10/4/2

Reviewed: 2/12/43 Applied to chart No. Date:

Redrafting Completed: 4/12/43

Registered: 9/12/45 Published: 10/3/43

Compilation Scale: 1:20,000 Published Scale: 1:31,680

Scale Factor (III): Unity

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

Reference Station (III): TANGIER SOUND L. H. 1893
37° 47' 16.589 (51.54 m)
Lat.: 87° 47' 16.589 (51.54 m)

Long.: 75° 58' 26.740 (651.3 m) Adjusted

Unadjusted

State Plane Coordinates (VI):
Virginia South Zone.

\[ X = 2,729,875.37 \text{ feet} \]
\[ Y = 539,374.39 \text{ feet} \]

Military Grid Zone (VI) A
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>8961</td>
<td>4/15/42</td>
<td>2:38</td>
<td>1:20,000</td>
<td>2.2 ft.</td>
</tr>
<tr>
<td>8962</td>
<td></td>
<td>2:40</td>
<td>&quot;</td>
<td>2.2</td>
</tr>
<tr>
<td>8963</td>
<td></td>
<td>2:46</td>
<td>&quot;</td>
<td>2.15</td>
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<tr>
<td>8964</td>
<td></td>
<td>2:50</td>
<td>&quot;</td>
<td>2.15</td>
</tr>
</tbody>
</table>

Tide from (III): Tangier Sound, Chesapeake Bay, Md.
Mean Range: Spring Range:
Camera: (Kind or source) U.S.C. & G.S. - 9 Lens.
Field Inspection by: J.C. LaJoye, D.B. Hancock  date: June 1942
Field Edit by: J. R. Evans  date: Oct. 1942
Date of Mean High-Water Line Location (III): 4/15/42

Projection and Grids ruled by (III) Washington date:
"      "      " checked by: Washington date:
Control plotted by: C.H.W.  date: Aug. 1942
Control checked by: A.L. K.  date: Aug. 1942
Radial Plot by: Tampa Office - X  date: Aug. 1942
Detailed by: D.K.  date: Aug. 1942
Elevations on Field Edit Sheet checked by: None date:
STATISTICS (III)

Land Area (Sq. Statute Miles): 2.7

Shoreline (More than 200 meters to opposite shore): 24.9

Shoreline (Less than 200 meters to opposite shore): 19.3

Number of Recoverable Topographic Stations established: 3.

Number of Temporary Hydrographic Stations located by radial plot:

Leveling (to control contours) - miles: none

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

This sheet was compiled in accordance with "Instructions for Defense Mapping, Project CS-278", dated March 4, 1942.

The general locality of the area covered by this survey sheet is Chesapeake Bay, Tangier Sound, vicinity of Tangier Island.

The land area on this sheet consists almost entirely of marsh islands, on which about half of the total shoreline consists of sandy beaches. There are some strips of drained land in the populated section of Tangier, and occasional patches of woodland on Watts Island.

Certain areas of Tangier contain numerous small drainage ditches, only the largest of which have been shown. There is no cultivation on this sheet.

Practically all buildings visible on the photographs have been shown.

All roads and streets should be smooth drafted 30 feet in width, as all are less than 30 feet wide.

CONTROL

The following four triangulation stations fall within the boundaries of the quadrangle and were used for control:

<table>
<thead>
<tr>
<th>NAME OF STATION</th>
<th>YEAR</th>
<th>ESTABLISHED BY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tangier 3</td>
<td>1932</td>
<td>C. D. Meaney</td>
</tr>
<tr>
<td>Tangier Sound L. H.</td>
<td>1898, 1932</td>
<td></td>
</tr>
<tr>
<td>Tangier Is. Ch. Spire</td>
<td>1898</td>
<td></td>
</tr>
<tr>
<td>Watts Island L. H.</td>
<td>1849, 1932</td>
<td></td>
</tr>
</tbody>
</table>

MAIN RADIAL PLOT

A continuous radial plot was laid on August 24 and 25, 1942, to locate radial points, hydrographic and topographic stations, bench marks, and photographic centers. The plot extended over the area covered by sheets Nos. T-8150, T-8161, T-8162 and T-8164.

The grid sheets were taped to the plotting table and allowed to remain for 48 hours before any templates were laid. The grid sheets were examined for movement and where such movement had occurred a final adjustment was made prior to laying the templates. The usual practice of laying the main radial plot was followed. Triangulation stations were plotted on the survey sheets and transferred to the base grid sheets by matching individual grid squares. The amount of adjustment between the grid squares of the base sheets and the survey sheets was negligible.

The plot consisted of 17 templates. Template No. 8537 showed 11 triangulation stations. Template No. 8538 showed 9 triangulation stations. Templates Nos. 8647 and 8979 showed 8 triangulation stations. Template No. 8978 showed 6 triangulation stations. The remaining 12 templates showed from
0 to 5 triangulation stations; two templates with 5 stations, 3 with 4 stations, and 5 with 3 stations.

The templates of the westernmost flight were laid first, even though these were not the most rigidly controlled. The end-templates of this flight were rigidly controlled. A parallel flight to the east was laid next, which was not rigidly controlled by triangulation. The easternmost portion of the plot was laid last and had the strongest triangulation control. The templates in this gap were laid so as to yield the maximum number of radial intersections with the previous more rigidly controlled templates. After two trials, perfect agreement along the flight lines was obtained and 83 percent of the triangulation stations were intersected by radial lines. Fairly good radial point intersections occurred throughout the plot. A number of templates indicated considerable tilt. Three templates were omitted because they were superfluous and lacked control.

This radial plot was laid by one Senior Engineering Aid, assisted by two Photogrammetric Aids. The time consumed in laying this plot amounted to 15 man hours.

All of the intersections were transferred from the main radial plot to the survey sheets by again matching the grid squares to those of the base grid sheets. Sixty percent of the points were located by common intersections of 4 radial lines. Thirty percent of the points were located by common intersections of 3 radial lines. The remaining ten percent were located by common intersections of 5 to 7 radial lines. About five percent of the points could not be picked, there being fairly large triangles of error. Where these triangles of error occurred, the radial lines were transferred onto the survey sheets so that these points may be further investigated by the individual detailers.

Although the triangulation stations were not uniformly distributed, leaving large areas of the plot without control, it is, nevertheless, believed that the positions of the radial points picked are not more than 0.25 m.m. from their correct locations.

Various colored inks were used on the mounted office prints and on the survey sheets to designate triangulation, traverse and topographic stations, etc. The following key is furnished for this information:

Photographs (Office Prints)
Triangulation & Traverse Stations .................. 2.5 m.m. blue circle
Marked Hydro & Topo Signals ...................... 2.5 m.m. green circle
Radial Points (Main Plot) ......................... 2.5 m.m. red circle
Radial Points (Additional) ....................... 3.5 m.m. red circle
Photograph Centers .................. Double circle

Survey Sheets
Triangulation Stations 1 .................. 3.5 m.m. high black triangle
Hydro & Topo Stations ......................... 2.5 m.m. black circle
Radial Points (Main Plot) ..................... 2.5 m.m. purple circle on back
Radial Points (Additional) ................... 3.5 m.m. purple circle on back
Radial Points (Questionable) .................. 3.5 m.m. green circle on back
Bench Marks .................. 3.5 m.m. high black crosses
INTERPRETATION OF PHOTOGRAPHS

The photographs were clear and no trouble was experienced in their interpretation, with the exception noted below.

FIELD INSPECTION

The field inspection was made by J. C. Lajoye and Douglas B. Hancock, during June 1942.

Little classification of culture or vegetation was made. Some labeling was done by the draftsmen, but this should be checked and further classification made in the field.

Some uncertainty and evident error in the use of the blue and red lines was noted. Difficulty was also experienced because of the use of a single lens field photo for the delineation of the north shore line of Tangier Island. This photo was taken previous to the nine-lens office prints and shows a marked difference in shore line.

The legend used by the field inspection party and the draftsmen has been made a part of this report.

JUNCTIONS

There are no land junctions on the north, east or south sides of this sheet. The small land area adjoining the tracing limits on the west, comprising Goose Island and a portion of Tangier Island, has been compiled directly on this sheet as suggested by the Washington office. The projection for the sheet to the west is being returned to the Washington office.

NON-FLOATING AIDS

No picking cards have been furnished for a number of lights and beacons appearing on the chart. These should be inserted by the field party.

COMPARISON WITH OTHER SURVEYS

Due to large scale differences no accurate comparison of this with other surveys could be made. However, there has been some change in the area between Tangier and Goose Islands, as indicated on the 1938 revision of the U.S.C. & G. chart.

GEOGRAPHIC NAMES

The geographic names used on this sheet were taken from the U.S.C. & G. S. Chart 1224 and Virginia State Highway map for Accomac County. No geographic name sheet for this area has been furnished this office.

LANDMARKS

No prominent landmarks appear on this sheet.

Respectfully submitted

Daniel Kushner
Photogrammetric Aid

[Forwarded by:]

Kenneth G. Crosby, Chief of Party
FIELD EDIT REPORT

Project CS-278-C
F.L. Gallen, Chief of Party

5. See T-8161

10. The lights and beacons in the TANGIER ISLAND CHANNEL were located by cuts taken from 4 or 5 planetable stations. The triangulation station TANGIER ISLAND CHURCH SPIRE is recommended as a landmark.

11. See Form 567 - Landmarks for Charts

14. Roads were classified according to instructions.

15. Bridges on Tangier Island are capable of light loads only (intended as foot bridges).

16. Buildings were classified according to instructions.

17. Political districts were obtained from the Postmaster on Tangier Island. Not shown on field edit sheet.

18. Geographic names were taken from the special report CS-278-C South, submitted by A. J. Wraight, Photogrammetric Aid.

46. All additions, deletions and corrections were made on the map manuscript and transferred to a smooth copy after the field work had been completed.

The inking on field edit maps was done in accordance with the following scheme:

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additions, bench marks</td>
<td></td>
</tr>
<tr>
<td>Eye elevations, crosses</td>
<td>Black</td>
</tr>
<tr>
<td>Deletions</td>
<td>Green</td>
</tr>
</tbody>
</table>

47. The location of detail is believed to be accurate due to the presence of several triangulation stations near the only detail on the manuscript and also the results of planetable work on the islands.

48. The nearest accuracy tests were performed in quads T-8159 and T-8167.

Submitted by,

John R. Evans,
Junior Topographic Engineer

Approved:

F. L. Gallen,
Chief of Party
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TO BE CHARTED

LANDMARKS FOR CHARTS
PERMANENT AIDS TO NAVIGATION

SALISBURY, MD. November 2, 1942

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks, be charted on the charts indicated.
The positions given have been checked after listing.

<table>
<thead>
<tr>
<th>NAME AND DESCRIPTION</th>
<th>POSITION</th>
<th>METHOD OF LOCATION</th>
<th>DATE OF LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TANGIER ISLAND LIGHT 1</td>
<td>37 50 22.143 683.3</td>
<td>N.A. 1927</td>
<td>Oct. 1942</td>
</tr>
<tr>
<td>TANGIER ISLAND BEACON 2</td>
<td>37 50 18.342 565.5</td>
<td>Plane-table</td>
<td></td>
</tr>
<tr>
<td>TANGIER ISLAND BEACON 4</td>
<td>37 50 13.331 411.0</td>
<td>Plane-table</td>
<td></td>
</tr>
<tr>
<td>TANGIER ISLAND CHANNEL LIGHT 5</td>
<td>37 50 3.509 108.2</td>
<td>Plane-table</td>
<td></td>
</tr>
<tr>
<td>TANGIER ISLAND CH. Nnel LIGHT 7</td>
<td>37 49 57.335 1769.7</td>
<td>Plane-table</td>
<td></td>
</tr>
<tr>
<td>TANGIER ISLAND BEACON 8</td>
<td>37 49 54.089 1666.7</td>
<td>Plane-table</td>
<td></td>
</tr>
<tr>
<td>TANGIER ISLAND CHANNEL BEACON 10</td>
<td>37 49 45.180 1417.6</td>
<td>Plane-table</td>
<td></td>
</tr>
<tr>
<td>TANGIER ISLAND CHANNEL INNER LIGHT</td>
<td>37 49 42.532 1211.3</td>
<td>Plane-table</td>
<td></td>
</tr>
<tr>
<td>COTT HARBOR BEACON</td>
<td>37 49 38.196 1191.5</td>
<td>Plane-table</td>
<td></td>
</tr>
<tr>
<td>COTT HARBOR LIGHT (abandoned)</td>
<td>37 49 35.841 1105.1</td>
<td>Plane-table</td>
<td></td>
</tr>
<tr>
<td>WATTS ISLAND LIGHTHOUSE</td>
<td>37 46 56.145 1731.0</td>
<td>Plane-table</td>
<td></td>
</tr>
<tr>
<td>TANGIER SOUND LIGHTHOUSE</td>
<td>37 47 16.607 512.0</td>
<td>Plane-table</td>
<td></td>
</tr>
</tbody>
</table>

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.
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
LANDMARKS FOR CHARTS  

TO BE CHARTED  

SALISBURY, MARYLAND  
Nov. 2, 1942

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks, be charted on the charts indicated. The positions given have been checked after listing.

<table>
<thead>
<tr>
<th>NAME AND DESCRIPTION</th>
<th>POSITION</th>
<th>METHOD</th>
<th>DATE</th>
<th>CHARTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tangier Sound, Va.</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>SPIRE, church</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Tangier Island Church Spire, Va.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>37° 49' 11'55.1&quot;</td>
<td>75° 59' 500.6&quot;</td>
<td>Triangulation 1927</td>
<td></td>
</tr>
</tbody>
</table>

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.
MEMORANDUM of change in quadrangle name.

The 7½-minute series quadrangle in Virginia, index number N3745-W7552.5/7.5x8.5, heretofore known as TANGIER ISLAND EAST, has been changed to TANGIER ISLAND.

Since the small margin area formerly included on Tangier Island West will now be shown on the map of the Tangier Island quadrangle, the name Tangier Island West will be abandoned.

J. G. STAACK,
Chief Topographic Engineer.

U. S. Coast and Geodetic Survey
cc: Chief of Engineers (2 copies)
    Soil Conservation Service
    State Geologist
    Charlottesville, Va.
    Mr. Zems
November 21, 1942

The Director,
U. S. Geological Survey,
Washington, D. C.

Dear Sir:

This is written in confirmation of a telephone conversation between Mr. R. H. Sargent of your Survey and Commander K. T. Adams of this Bureau.

In the assignment of quadrangle names for priority area No. 1 being mapped by this Bureau for the War Department, the quadrangle whose southeast corner is at N3745 - W7552.5/7.5 was named Tangier Island East. The adjoining quadrangle to the westward was named Tangier Island West.

Since there is only a very small portion of land on the western quadrangle this Bureau proposes to include this as an overhang on the eastern quadrangle. In this event the name Tangier Island West would not be used and therefore the name Tangier Island East becomes inappropriate. It is suggested that the eastern quadrangle, the only one to be used, be named simply Tangier Island.

Yours very truly,

E. G. Colbert
Director.
GEOGRAPHIC NAMES LIST FOR T-6164

Beach Creek
Canaan
Canton Ridge
Canton Ridge Creek
Cod Harbor
East Point Marsh
East Point Ridge
Fishing Gut
Fox Islands — applied to entire group of Great and Little Fox Islands only on part of this sheet.
Goose Harbor
Great Thorofare
Little Fox Islands
Little Watts Island
Mailboat Harbor — variant for Cod Harbor — not a separate feature
Main Ridge
Man's Island
Oyster Creek
Oyster Creek Gut
Oyster Creek Ridge
Pocomoke Sound
Queens Ridge
Rubentown
Sand Spit
Tangier
Tangier Creek
Tangier Sound
Tangier Sound L. H.
Tangier Island
The Bar
The Flats
The Shells
Toms Gut
Big Watts Island
Watts Island L.H.
West Ridge
West Ridge Creek

Please locate:

- Fox Islands
- Mailboat Harbor
- Man's Island
- East Point Ridge
<table>
<thead>
<tr>
<th>No.</th>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>K</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Tangier Sound</td>
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<td>2</td>
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<td>Little Watts Island</td>
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<td>Tangier Sound Lighthouse</td>
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<td>Little Fox Islands</td>
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<td>9</td>
<td>Goose Island</td>
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<td>Rum Point</td>
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<tr>
<td>11</td>
<td>Goose Harbor</td>
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<tr>
<td>13</td>
<td>The Shells</td>
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<tr>
<td>16</td>
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<td>17</td>
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<tr>
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</tr>
<tr>
<td>23</td>
<td>East Point Ridge</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<td>22</td>
</tr>
<tr>
<td>24</td>
<td>East Point Marsh</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>23</td>
</tr>
<tr>
<td>25</td>
<td>Tangier Creek</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>26</td>
<td>Tangier</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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<td>25</td>
</tr>
<tr>
<td>27</td>
<td>Oyster Creek</td>
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M 234
<table>
<thead>
<tr>
<th>Remarks</th>
<th>Decisions</th>
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<tbody>
<tr>
<td>1</td>
<td>378758-60</td>
</tr>
<tr>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3 Not BIG Watts Island</td>
<td>377758-59 USGB</td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
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<tr>
<td>6</td>
<td></td>
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<tr>
<td>7</td>
<td></td>
</tr>
<tr>
<td>8 This name applies to Little Fox Islands and also to Great Fox Islands to north of this sheet. Not necessary to apply on this sheet, as feature sufficiently named by Little Fox Islands</td>
<td>378758-60</td>
</tr>
<tr>
<td>9</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
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<td>11</td>
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<td>12</td>
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<td>13</td>
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<tr>
<td>14</td>
<td></td>
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<tr>
<td>15</td>
<td></td>
</tr>
<tr>
<td>16 omitted - settlement abandoned.</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td></td>
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<tr>
<td>18</td>
<td></td>
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<tr>
<td>19</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
</tr>
<tr>
<td>21 omitted - (water feature)</td>
<td></td>
</tr>
<tr>
<td>22 On compilation but not in names report: see West Point, No. 2, line 14</td>
<td></td>
</tr>
<tr>
<td>23 Cannot be located until name sheet arrives</td>
<td></td>
</tr>
<tr>
<td>24 This is The Point on 1905 topographic survey T-2695 and several current U.S.E. blueprints: apply East Point Marsh</td>
<td></td>
</tr>
<tr>
<td>Name on Survey</td>
<td>A</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>---</td>
</tr>
<tr>
<td>Oyster Creek Ridge</td>
<td></td>
</tr>
<tr>
<td>West Ridge</td>
<td></td>
</tr>
<tr>
<td>West Ridge Creek</td>
<td></td>
</tr>
<tr>
<td>Main Ridge</td>
<td></td>
</tr>
<tr>
<td>Canton Ridge</td>
<td></td>
</tr>
<tr>
<td>Canton Ridge Creek</td>
<td></td>
</tr>
<tr>
<td>God Harbor</td>
<td></td>
</tr>
<tr>
<td>Beach Creek</td>
<td></td>
</tr>
<tr>
<td>Send Spit</td>
<td></td>
</tr>
<tr>
<td>Men Island</td>
<td></td>
</tr>
<tr>
<td>Little Men Island</td>
<td></td>
</tr>
<tr>
<td>Mailboat Harbor</td>
<td></td>
</tr>
<tr>
<td>Great Thoroughfare</td>
<td></td>
</tr>
<tr>
<td>West Point</td>
<td></td>
</tr>
<tr>
<td>Whale Point</td>
<td></td>
</tr>
<tr>
<td>Tangier Channel</td>
<td></td>
</tr>
<tr>
<td>Horseshoe Island</td>
<td></td>
</tr>
</tbody>
</table>

The attention of Commander Adams has been called to the question of the title of this quadrangle, which, if the sheet also includes the area west of long. 76°, should presumably be 'Tangier Island.' He will take up question with U.S.S.S. L.H.
Remarks.

1. To be deleted from proof 2/20/43 (red).

2. "

3. "

4. "

5. "This is Robbins River on several current U.S.E. blueprints; referred to USGS: apply Canton Ridge Creek pending its decision"

6. "Canyon Creek (near)"

7. "

8. "

9. "

10. "This and Little Man Island are not shown at all on compilation: both names and features are found on a 1940 U.S.E. blueprint: near mouth of Canton Ridge Creek, north side of Cod Harbor (Islands do appear on manuscript but are crossed out and shaded)."

11. "Presumably this is the anchorage near Tangier: exact location will have to await arrival of name sheet"

12. "Tube deleted from proof 2/20/43 (red)"

13. "This name is from a 1939 U.S.E. blueprint"

14. "From 1939 and 1940 U.S.E. blueprints"

15. "omitted from file 2/20/43 (red)"

16. "From numerous U.S.E. blueprints, 1940 and earlier"

17. "Used on page 267 of 1937 Coast Pilot, Section C; also on 1939 and 1940 U.S.E. blueprints: on north side of Tangier Channel, near lat. 37°50'24" N., long. 75°58'36" W. Coast Pilot states it is a "small sand cay about awash at high water." Not shown on the compilation, and perhaps photos should be checked. Vaguely shown on chart 1223."
DIVISION OF CHARTS
SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8164

TANGIER 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.

Refer to pages 3 and 4 of the Descriptive Report for quadrangle T-8157 for a copy of the results of the nearest horizontal accuracy test.

As the land area within the limits of this quadrangle is less than 20 ft. above mean-sea-level (the maximum elevation is 7 ft.), no vertical accuracy test was required.

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.

<table>
<thead>
<tr>
<th>Quadrangle</th>
<th>Scale</th>
<th>Date</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-272</td>
<td>1:20,000</td>
<td>1849</td>
<td>This quadrangle is adequate to supersede all the previous surveys except for the wreck shown in Cod Harbor on survey T-2665.</td>
</tr>
<tr>
<td>T-309</td>
<td>1:20,000</td>
<td>1850</td>
<td></td>
</tr>
<tr>
<td>T-2380</td>
<td>1:9,600</td>
<td>1895</td>
<td></td>
</tr>
<tr>
<td>T-2685</td>
<td>1:20,000</td>
<td>1905</td>
<td></td>
</tr>
<tr>
<td>Crisfield</td>
<td>1:62,500</td>
<td>1903</td>
<td>U.S.G.S.</td>
</tr>
<tr>
<td>Ewell</td>
<td>1:62,500</td>
<td>1917</td>
<td>U.S.G.S.</td>
</tr>
</tbody>
</table>

This quadrangle is adequate to supersede both the published quadrangles except for the steamboat routes on quadrangle "Ewell".

Comparison with Nautical Charts Nos.

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 changes in shoreline were apparent during the comparison of the chart and the manuscript.
The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

During the investigation of the radial plot, errors of as much as 64 meters were discovered in the position of detail in the northern portion of Tangier Island and the northwest corner of the sheet. A new plot was laid in the Washington Office covering survey sheets T-8161, T-8162, T-8163, and T-8164, and the detail in the above mentioned areas was recompiled.

Reviewed 2/12/43  By  Jack L. Clark  
under direction of D. H. Benson  

Inspected by B. G. Jones  

Examined and approved:

Charles Price  
Chief, Surveys Branch

J. B. Dorrin  
Chief, Div. of Charts

K. T. Adams  
Chief, Topography Section

Raymond P. Griffin  
Acting Chief, Div. of Coastal Surveys
This quadrangle, together with similar adjoining maps produced under Project C.S. 278-9 was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

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

FIELD SURVEYS

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

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

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

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templets) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the 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 "blueline" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.
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.

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. Gallow, 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.