DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Sheet</th>
<th>Survey No.</th>
<th>Quadrangle Nandua Creek</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Photographic</td>
<td>Sheet</td>
<td>Survey No. T-8170</td>
</tr>
</tbody>
</table>

**VIRGINIA**

**NANDUA CREEK QUADRANGLE**

N37°37.5' W75°52.5'/7.5

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>Virginia</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>Chesapeake Bay</td>
</tr>
<tr>
<td>Locality</td>
<td>Nandua Creek</td>
</tr>
</tbody>
</table>

**NANDUA CREEK QUADRANGLE**

N37°37.5' W75°52.5'/7.5

194.2

**CHIEF OF PARTY**

Lieut. Comdr. Kenneth G. Crosby

September 19, 1945
Quadrangle (II): NANDUA CREEK   Project No. (II): 273-C
Field Office: Salisbury, Md.   Chief of Party: Patterson, W. D.
Compilation Office: Tampa, Fla. Chief of Party: Crosby, K. G.

Instructions dated (II III): 3-4-42   Copy filed in Descriptive Report No. T-(VI)
Companion survey received in office: 10/27/42

Reported to Nautical Chart Section: 1/26/45
Reviewed: 3/8/43  Applied to chart No.   Date: 5/13/43
Redrafting Completed: 5/13/43
Registered: 8/31/45   Published: 9/6/45
Compilation Scale: 1:20,000   Published Scale: 1:31,680
Scale Factor (III): 1,000

Geographic Datum (III): N.A. 1927   Datum Plane (III): M.S.L.
Reference Station (III): Pel, 1942 (Geodetic)   Mason, 1942
37° 36' 38.574" (1142.2m) 75° 52' 16.237" (398.3m)
Lat.: 37° 36' 38.574" (1142.2m) Long.: 75° 52' 16.237" (398.3m) Adjusted
(Scaled)   Unadjusted

State Plane Coordinates (VI): Virginia South
X = Y =
The plane coordinates for this station are not available.

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>8533</td>
<td>13 April 1942</td>
<td>11:11 A.M.</td>
<td>1:20,000</td>
<td>+ 1.6 Ft.</td>
</tr>
</tbody>
</table>

Tide from (III): Predicted tides, Pungoteague Creek, Chesapeake Bay, Virginia
Mean Range: 1.7 Ft.  Spring Range: 2.0 Ft.
Camera: (Kind or source) U.S.C. & G.S. Nine Lens (Focal length 8½ inches.)

Field Inspection by: S. C. Dionsio, Photo. Aid  date: May 1942
Field Edit by: C. F. Fryer, 10.10.42  date: Nov. 1942

Date of Mean High-Water Line Location (III): April 13, 1942

Projection and Grids ruled by (III) Washington. Offc.  date:

"  "  " checked by:  "  "  "  date:

Control plotted by: C. L. Bailey, Photo. Aid  date: 9-22-42
Control checked by: L. H. Zollars, Photo. Aid  date: 9-22-42

Radial Plot by: Tampa Office Personnel  date: 9-29-42

Detailed by: Bortis, H. C., Photogrammetric Aid  date: 10-2-42

Reviewed in compilation office by: Giles, J.A., Prin. Photo. Aid  date: 10-9-42

Elevations on Field Edit Sheet checked by: C. Harrell  date: Dec. 1942
STATISTICS (III)

Land Area (Sq. Statute Miles):  1.5

Shoreline (More than 200 meters to opposite shore): 5.7 stat. mrs.

Shoreline (Less than 200 meters to opposite shore): 5.7 "

Number of Recoverable Topographic Stations established: 5

Number of Temporary Hydrographic Stations located by radial plot:

Leveling (to control contours) - miles: 0

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:
CONTROL

Although no triangulation station fell on the sheet, the radial points, whose positions were determined by the main radial plot, were sufficient to control the detailing.

RADIAL PLOT

The main radial plot for this sheet is discussed in the compilation report for sheet T-8173.

DETAILING

The detailing was done from nine-lens photographs No. 6533 whose center fell outside the tracing limits of the sheet. The photograph was clear and the scale was good.

Field inspection was sufficient and satisfactory for the office detailing.

SUPPLEMENTAL DATA

There has been no supplemental data used in the compilation of this sheet; the entire detail being obtained from photographs.

LANDMARKS AND AIDS TO NAVIGATION

There are two non-floating aids that fall on the sheet. They have not been plotted as they were located by sextant angles which appear to be in error. These aids are to be relocated in the field.

These aids are listed on the picking card as Pungoteague Light and Pungoteague Beacon. Pungoteague Light is listed in the Coast Pilot and Light List as Pungoteague Creek Light. Pungoteague Beacon was probably formerly Hack Neck Shoal Light.

HYDROGRAPHIC CONTROL

Five recoverable topographic stations suitable for the control of hydrographic surveys fall on the sheet. The description and scaled geographic positions are shown on "Description of Recoverable Hydrographic or Topographic Station" cards, (Form 524).

COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

A comparison was made with the Onancock Quadrangle, Virginia, published by the Corps of Engineers, U. S. Army, on a scale of 1:62,500.

No differences of any importance were noted in the comparison.
COMPARISON WITH NAUTICAL CHARTS

In comparing the sheet with U. S. C. and G. S. chart 1223 more detail and shoreline indentations are shown on the sheet than on the chart.

Wood Island and a small islet to the west of Scarbrough Island shown on the chart do not appear on the photographs so have not been shown on the photo compilation. These islets have evidently been washed away.

GEOGRAPHIC NAMES

On this project Geographic names are investigated by the field party, so it is not possible for the compilation office to make a list of geographic names and their authorities.

Respectfully submitted,

Harl G. Bortis
Harl G. Bortis,
Photogrammetric Aid

Forwarded by:

Kenneth G. Crosby,
Chief of Party.
FIELD EDIT REPORT
QUADRANGLE T-8170
Project CS-278-C
F. L. Gallen, Chief of Party

1. The land area on this sheet is comprised of a series of necks and points which extend out into the Chesapeake Bay. Marshland is predominant with wooded and cultivated areas about evenly distributed.

10. The locations of South Marsh, Middle Marsh, and Woody Island, which were not shown on the compilation sheet but are shown on nautical chart No. 1223, were investigated in the field. These islets were found to have been washed away. In addition, this was verified by local fishermen.

15. The bridge classification was carried out in accordance with the instructions.

17. Political boundaries were obtained from maps issued by the Census Bureau and were verified in the field.

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

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

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

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>COLORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additions, bench marks, wye level elevations</td>
<td>Black</td>
</tr>
<tr>
<td>Deletions</td>
<td>Green</td>
</tr>
<tr>
<td>Drainage features</td>
<td>Blue</td>
</tr>
<tr>
<td>Political boundaries</td>
<td>Purple</td>
</tr>
</tbody>
</table>

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

48. Horizontal accuracy tests were run in quadrangles T-8172 and T-8174. There are no contours on this sheet; the maximum elevation was found to be 4 feet.

Submitted by
C. C. Fryer

C. C. Fryer,
Photogrammetric Aid

Approved by
F. L. Gallen, Chief of Party
<table>
<thead>
<tr>
<th>Affected Chart</th>
<th>Chart No.</th>
<th>Date</th>
<th>Method</th>
<th>Location of Datum</th>
<th>Location of T.M.</th>
</tr>
</thead>
</table>

**Position**

**Latitude**

**Longitude**

**Name and Description**

GENERAL CRESSMAN BAY, VA.

**Additional Information**

The positions given have been checked after having ________.

I recommend that the following objects which have (MARKED) been inspected from seaward to determine their value as landmarks,

<table>
<thead>
<tr>
<th>传感器, Made</th>
<th>November 10, 1946</th>
</tr>
</thead>
</table>

TO BE CHARTED.

LANDMARKS FOR CHARTS

U.S. Coast and Geodetic Survey

DEPARTMENT OF COMMERCE

(Revs: April 1942)

Form 597
GEOGRAPHIC NAME LIST FOR T-8170

Back Creek
Butcher Creek
Hacks Neck
Miley's Point
Mandua Creek
The Sandhill
Chesapeake Bay
<table>
<thead>
<tr>
<th>Remarks</th>
<th>Decisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>376758</td>
</tr>
<tr>
<td>2</td>
<td>&quot;</td>
</tr>
<tr>
<td>3</td>
<td>&quot;Pending with USCB&quot;</td>
</tr>
<tr>
<td>4</td>
<td>&quot;</td>
</tr>
</tbody>
</table>
| 5       | "Washed away, according to section 10, Descriptive Report."
| 6       | "        |
| 7       | "It is Milby's Pt. on both name sheet and in report on names."
<p>| 8       | &quot;        |
| 9       | &quot;        |
| 10      | &quot;Officially adopted spelling&quot; |
| 11      | 376758    |
| 12      | 377758    |
| 13      | USCB      |
| 14      | &quot;        |
| 15      | &quot;        |
| 16      | &quot;        |
| 17      | &quot;        |
| 18      | &quot;        |
| 19      | &quot;        |
| 20      | &quot;        |
| 21      | &quot;        |
| 22      | &quot;        |
| 23      | &quot;        |
| 24      | &quot;        |
| 25      | &quot;        |
| 26      | &quot;        |
| 27      | &quot;        |</p>
<table>
<thead>
<tr>
<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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<tbody>
<tr>
<td>Manda Creek</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td>1</td>
</tr>
<tr>
<td>Back Creek</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Hacks Neck</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Butcher Creek</td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>South Marsh</td>
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<td></td>
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<td></td>
<td></td>
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<tr>
<td>Middle Marsh</td>
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<tr>
<td>Noydy Island</td>
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<tr>
<td>Chesapeake Bay</td>
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<tr>
<td>Accomack County</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>The Sandhill</td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Lee (political district)</td>
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<td>State Highway 632</td>
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<tr>
<td>Pungoteague (political district)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

M 234
Records

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,660 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. 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-C 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 planetary 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 Batavia 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 planetary methods of additional details, checking of nautical and aeronautical aids to navigation, etc.
Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

PROCESSING IN THE WASHINGTON OFFICE

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

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

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-6170

NANDUA CREEK 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 the Descriptive Report for quadrangle T-6172 for a copy of the results of the nearest horizontal accuracy test.

As all of the land area within the limits of this quadrangle is less than 20 ft. above mean-sea-level (the maximum elevation is 4 ft.), a vertical accuracy test was not 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>
</tr>
</thead>
<tbody>
<tr>
<td>T-307</td>
<td>1:20,000</td>
<td>1850</td>
</tr>
<tr>
<td>T-2654</td>
<td>1:20,000</td>
<td>1903</td>
</tr>
<tr>
<td>Onancock</td>
<td>1:62,500</td>
<td>1919</td>
</tr>
<tr>
<td></td>
<td></td>
<td>U.S.E.</td>
</tr>
</tbody>
</table>

Comparison with Nautical Charts No. 1223

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

Only minor corrections were necessary during the review of this quadrangle.

Reviewed 11/14/44
under direction of D. H. Benson

Inspected by B. G. Jones 8/30/45

Examined and approved:

Charles Price
Chief, Survey Branch
Chart Division

K. T. Adams
Chief, Topography Section

J. F. Borden
Chief, Div. of Charts

Raymond Green
Acting Chief, Div. of Coastal Surveys