Diag'd. on Diag. Ch. No. 78-3

U.S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Topographic Quadrangle
Field No.: CS-289-X  Office No.: T-8343

LOCALITY
State: Virginia
General Locality: North of Rappahannock River
Locality: Kilmarnock

1944-1945
CHIEF OF PARTY
R.L. Shoppe

LIBRARY & ARCHIVES
DATE: November 9, 1943
DATA RECORD

Quadrangle (II): Fleets Bay (1/2') U.S.C.G.


Instructions dated (II III): February 29, 1944

Completed survey received in office; Survey completed in office;
Reported to Nautical Chart Section;

Reviewed: May 1, 1946 Applied to chart No. 534 Date: 3/18/49

Redrafting completed:

Registered: 10/5/49 Published:

Compilation Scale: 1:10,000 Published Scale: 1:31,600

Scale Factor (III): 1:00 1:24,000

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

Reference Station (III): Dime 2, 1944 Adjusted

Lat.: 37° 40' 23.141" Long. 76° 19' 27.080" Unadjusted

State Plane Coordinates (VI): U. S.

X =  Y =

Military Grid Zone (VI) A

Plotted M.G.M. 5/44
<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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</thead>
<tbody>
<tr>
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<td>629-636</td>
<td>2/5/44</td>
<td>13:35</td>
<td>1:24,000</td>
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<td>657-671</td>
<td>2/5/44</td>
<td>14:10</td>
<td>1:24,000</td>
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<td>696-708</td>
<td>2/6/44</td>
<td>12:10</td>
<td>1:24,000</td>
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</tbody>
</table>

Tide from (III): Dividing Creek (Reference station, Hampton Roads)

Mean Range: 1.1 feet
Spring Range: 1.3 feet

Camera: (Kind or source) C&GS, Camera "C" 6" Wide angle
Metrogon lens

Field Inspection by: R. E. Houtrow     date: March-April, 1944
Contours by H. R. Cravit & J. K. Wilson date: March-April, 1944
(See sketch in descriptive report T-8353)

Field Edit by: A. LaFave & S. W. Trow   date: June, 1944
(see area contoured in field.)

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

Projection and Grids ruled by (III) Ruling Machine date: October, 1944 by S. Rose
checked by: B. R. C.          date: October, 1944

Control plotted by: A. LaFave & S. W. Trow date: November, 1944
Control checked by: J. Hennigesen & S. W. Trow date: November, 1944

Radial Plot by: See report on Radial plot for 289-X-1 date: 1943
Detailed by: Multiplex, S. W. Trow & J. P. Webb date: September, 1944

Reviewed in compilation office by:          date:

Manuscript Elevations on Field-Edit Sheet - S. W. Trow date: June, 1945
checked by: against elevations J. P. Webb
on field photographs by: A. LaFave
Land Area (Sq. Statute Miles): 24.6

Shoreline (More than 200 meters to opposite shore): 33.5 Miles

Shoreline (Less than 200 meters to opposite shore): 60.3 Miles

Number of Recoverable Topographic Stations established: None

Number of Temporary Hydrographic Stations located by radial plot: 

Leveling (to control contours) - miles: 36

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: The portion north of the Rappahannock River in T-3342 is included on this manuscript.
OUTLINE OF OPERATIONS

PROJECT CS 289X
(INCLUDING QUADRANGLE T-8343)

This project, CS 289X, of which T-8343 is a part, originally was part of war mapping project CS 290 which involved the production of 7.5-minute topographic quadrangles by photogrammetric methods using nine-lens photographs, but with all contouring by planetable.

In the winter of 1943-4 it was decided by the War Department that all field work would be discontinued July 1, 1944. Since the entire project CS 289 could not be completed by that date, it was subdivided and subproject CS 289X was designated as a test project for topographic mapping by multiplex. Subproject CS 289X was rephotographed with the single-lens camera, and new instructions for field work were issued February 29, 1944. A copy of these instructions is filed in the Photogrammetric Section.

By arrangement with the War Department, field work on subproject CS 289X was started in March 1944 and continued until some time in June 1944. Commander R. L. Schoppe was in charge of the field party.

The field work accomplished prior to July 1, 1944 on this project included the identification of horizontal control, the establishment of additional horizontal control for the multiplex, the establishment of supplemental levels for the multiplex, field inspection for the clarification of photographic details, and planetable contouring of flat areas along the Rappahannock River which it was assumed could not be satisfactorily contoured on the multiplex.

As originally planned under project CS 289, this area was to have been compiled from nine-lens photographs using the existing triangulation. For control of the multiplex, it was necessary on subproject CS 289X to establish 6 additional triangulation stations and about 66 miles of third-order traverse. A report on the triangulation and a separate report on each traverse line are filed in the Photogrammetric Section.

For vertical control of the multiplex mapping of the entire project CS 289X about 298 statute miles of supplemental levels were run.

The field inspection report for the entire subproject
CSS 289X is filed in the Photogrammetric Section.

The planetable contouring of flat areas along the Rappahannock River was accomplished on 1:10,000 scale single-lens ratio prints. This was done to obtain a comparison with contouring on 1:20,000 scale nine-lens photographs on most of the war mapping work. The report on this contouring is contained in the field inspection report.

Compilation of five quadrangles on this project was taken up in the Washington Office in September 1944 and completed in July 1945. Operation of the multiplex was not continuous, the instrument having been taken off of productive mapping for training purposes and the personnel also interrupted on several occasions for other special work. Field edit and completion surveys will be made in 1945 by a field party in charge of Mr. Harland R. Cravat and under the direction of the Chief, Section of Topography, Division of Coastal Surveys.

/s/ B. G. Jones
Chief, Photogrammetric Section
July 17, 1945

27. Radial Plot. - A 1:10,000 scale hand template radial line plot with single-lens photographs was used to control Multiplex strips. See compilation report T-353 for description of radial line plot.

30. Mean High-Water Line. - Mean high-water line was indicated on 1:20,000 scale nine-lens photographs 12621 to 12623 and 12658. These nine-lens photographs were used to locate the high-water line in the Multiplex models.

31. Low-Water and Shoal Lines. - A distinct line between the shoal areas and deep water shows on the single-lens photographs. This "shoal line" was plotted with the Multiplex as an aid to the hydrographic party. This "shoal line" is not to be shown on the published quadrangle.

35. Hydrographic Control. - The following hydrographic stations were located with sextant cuts and plotted with a three-arm protractor.

- Port Head Shoal Light
- Dignor Creek Flats Light
- Jarvis Point Shoal Light
- Haghelettes Point Flats Light
- Beacon No. 1
- Beacon No. 2
- Beacon No. 4
- Beacon No. 6

(located by triangulation)

(Cotton Patch Bar Lt. 1944)

(Old Toms Light 1944)

All other hydrographic stations were plotted with the Multiplex.

S. W. Trow
Cartographer
28 Nov 45
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>GENERAL LOCALITY</th>
<th>NAME AND DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Beacon No. 1 Indian Creek</td>
<td>37° 41'</td>
<td>76° 20'</td>
<td>NA 1927</td>
<td>Sextant Fix</td>
<td>14/44</td>
<td>X</td>
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<td></td>
<td>Beacon No. 2 Indian Creek</td>
<td>37° 41'</td>
<td>76° 19'</td>
<td>NA 1927</td>
<td>&quot;</td>
<td>&quot;</td>
<td>X</td>
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<tr>
<td></td>
<td>Beacon No. 3 Indian Creek</td>
<td>37° 41'</td>
<td>76° 20'</td>
<td>100</td>
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<td></td>
<td>Beacon No. 4 Indian Creek</td>
<td>37° 41'</td>
<td>76° 20'</td>
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<td></td>
<td>Beacon No. 5 Indian Creek</td>
<td>37° 41'</td>
<td>76° 20'</td>
<td>190</td>
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<td></td>
<td>Hughelet Pt. Flats Lt.</td>
<td>37° 43'</td>
<td>76° 17'</td>
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<td></td>
<td>Jarvis Pt. Shoal Lt.</td>
<td>37° 43'</td>
<td>76° 18'</td>
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<td>Cotton Patch Bar Lt.</td>
<td>37° 40'</td>
<td>76° 18'</td>
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<td>Old Toms Light</td>
<td>37° 40'</td>
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<td>Port Hamb Shoal Lt.</td>
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<td>Dyer Creek Flats Lt.</td>
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<td>76° 18'</td>
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</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.

Listed by: M.G. Marks
Checked by: H.R. Brown
<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>
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<td>Whitestone District</td>
<td>(per Census Map of Political Subdivisions, Mentha does not appear to touch this area--Lancaster Co.)</td>
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<td>(feature now appears to be an island)</td>
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| Jones School                   | 22|   |   |   |   |   |   |   |   | *(Original names report deleted Jones School)*
| Hughlett Point Road            | 23|   |   |   |   |   |   |   |   | *(check with application on T-8354)*
| Names from original names report (name sheet upstairs): | 24|   |   |   |   |   |   |   |   |
| Warehouse Point                | 25|   |   |   |   |   |   |   |   | *(both near north edge of quad.)*
| Bluff Point Neck               | 26|   |   |   |   |   |   |   |   | *(marked on name sheet)*
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<td>both OK unless they conflict with names already listed above</td>
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<td>Fort-Hand Shoal Light</td>
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<td>Cotton Patch Bar Light</td>
<td>(approach to Indian Creek)</td>
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<tr>
<td>Bluff Point School</td>
<td>(this name was deleted by original names report, but manuscript shows a school symbol still there)</td>
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<td>(or church)</td>
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Names underlined in red approved by J. Heck on 4/14/47
FIELD EDIT REPORT
T-8343, Fleets Bay Quadrangle, (3737.5/7615.75)
Project CS 289-X
Harland H. Crevat, Chief Of Party

The field edit survey was made by Mr. Aziel LaFave, Photogrammetric Engineer, from January 13, 1946 to February 1, 1946 in accordance with the Director's Field Edit Instructions dated August 24, 1945. During this time, vertical accuracy tests were made.

48. Methods
The field edit man rode in a truck or walked over every road in the quadrangle, excluding a few woods roads. Geographic names were checked with posted signs and local residents, political boundaries were checked with local residents and the county clerk of Lancaster County.

The results of the field edit survey are shown on the field edit sheet or on the deaccrepancy overlay. Any missing detail that could be delineated on the photographs was noted on the field edit sheet, with a number indicating on which photos it was to be found.

4. Horizontal Control
Station Fleet, 1944, was washed out of the bank on the shore line. It could still be used during this survey as a plane-table station. This information is also being submitted on Form # 526 (date altered from manuscript). Form 526 forwarded to NDD by 6/29/46.

6. Contours and Drainage
The contours are confined mostly to the northwest portion of the quadrangle. They follow a ridge which parallels State Road # 200. There were no major contour changes in this quadrangle.

The drainage is not part of the contour pattern as is the case with land farther from tide-water. The land adjacent to the water is dissected by many creeks, small streams, and marshes.

Such structures apparently were very carefully checked on the field inspection. A few small piers, recently built, were added and some in poor condition were deleted.

The wharves are, in general, deteriorating very rapidly. Those not marked "Ruins" are not necessarily in good condition but are still useable at this time.
10. Details Off-shore From High Water Line.
Several duck blinds were located.

At Ditchley, one dolphin was located near the wharf.

All other detail had been added during the compilation.

11. Landmarks and Aids To Navigation.
The location of all aids to navigation was determined by plan-
table cuts, or directly located on the photograph covering that
area.

14. Road Classification.
In 1944, roads were classified on the field inspection photographs
according to instructions dated November 16, 1942. During the field
edit, many roads were changed from "4" to "3" to comply with the
general instructions dated June 30, 1945.

15. Bridges
There were no bridges as such in this quadrangle with the exceptions
of foot bridges and one bridge in the vicinity of Lat. 37°41' and
Long. 78°19’. This bridge is in fair condition and would hold one
automobile. At other stream crossings earth fills and culverts were
used.

In this quadrangle and in Quadrangle T-8344, it was noted that the
general condition of the houses was poorer than in other quadrangles
that were done by this sub-party. In order not to delete an unduly
large number of houses, they were left on the field edit sheet.

17. Boundary Monuments and Lines.
The Northumberland-Lancaster County Line was shifted from the north
to the south side of St. Francis Church. At the road is an old oak
tree reputed to be on the county line.

The political subdivisions were made no farther than Magisterial
Districts. The status of precincts was discussed in the Field Edit

There were no other discrepancies in political boundaries.

18. Geographic Names.
No maps have been consulted in the selection of these names. The only
maps available to the field party were those prepared by the Virginia
Department Of Highways, and the scale of these was too small to
show most of these features.

The following changes or additions are recommended by the field edit
party on information obtained by consulting local residents:

1. Poplar Neck Creek to Winegar Cove
   David Winegar, Ship Builder, Ocran, Va.
   (Whitestone, R.F.D.)
2. Add Waverly Cove
   George Bussells, Pulpwood Dealer, Kilmarnock, Va.
   Earnest Webb, Std. Oil Distributor, Weems, Va.

3. Add Hackney Cove
   Earnest Webb, Std. Oil Distributor, Weems, Va.
   Gordon Rubank, Merchant, Kilmarnock, Va.

4. Plum Tree Cove
   This name should be deleted. The above named men are
   residents very familiar with this quadrangle and they
   never heard it referred to by that name. It is considered
   as a continuation of Indian Creek.

45. Comparison with Nautical Chart # 534
   Aids to Navigation are satisfactory and complete. It is recommended
   that changes be made in geographic names in accordance with Item
   18 of this report.

   There are many minor changes in road location which can readily
   be seen on comparison with the photographs covering this area or
   the map manuscript of this quadrangle. Roads recommended for
   deletion on the quadrangle should also be deleted on this chart.

47. Adequacy of Compilation
   In general the compilation seems to be adequate and complete.
   One area is designated on the field editsheet where the compilation
   should be re-checked. It would seem there is not enough distance
   between points 1 and 2. A satisfactory check could not be made
   with plane-table methods.

48. Accuracy Tests
   There was only one accuracy test made in this quadrangle because
   of the small area covered by contours. This test is located at
   Lat 37°43' and Long 76°22'. It began at Point A and closures were
   made at Points B and C. The horizontal closure was 0.5mm. and
   vertical closure 0.3'.

   The results are as follows:
   
   18 points tested
   17 points in error less than \( \frac{1}{2} \) contour interval
   0 points in error \( \frac{1}{2} \) to full contour interval
   1 point in error over a contour interval
   94% of all points tested were within \( \frac{1}{3} \) a contour interval

49. The field edit party has requested Captain Willis Stanley Bryant,
   Box 355, Kilmarnock, Va. to review one of the first proof copies of
   this quadrangle. Captain Bryant is a retired officer of the field
   artillery of the regular army. He has resided within this quadrangle
   for eight years. He gives the impression of being very interested in
   this mapping and the work of the Coast and Geodetic Survey.
Respectfully submitted,

Harland B. Cramer
Photogrammetric Engineer
During the preliminary office inspection of this manuscript, all questionable features within the area of the quadrangle were noted in red ink on a single-weight print. This discrepancy sheet was then forwarded to the field together with the necessary material for field edit. After completion of the field edit, a complete final review was made.

Paragraph numbers used in this report refer to paragraph numbers in the descriptive report.

27. Radial Plot.

Distribution of horizontal and vertical control within the limits of this manuscript is adequate. Data from the radial plot were used to supplement the multiplex work.

Due to the small area covered by contours on this quadrangle, only one vertical accuracy test was run by the field edit party. The results of this test are noted in the field edit report.

The accuracy of the planimetric and topographic features within the limits of the manuscript are believed to comply with the accuracy specified by the National Standards of Map Accuracy.


The assembled quadrangle is a metal-mounted sepia print. All of the reviewer's corrections were made in red ink on the unassembled vinylite compilations (1:10,000) and in black ink on the assembled sepia print (1:20,000).

The compilation was found to be adequate and complete by the field edit party, and only minor additions and corrections were noted. The field edit data were applied to the manuscript by the reviewer in black ink.

An overlay has been prepared to assist in the smooth drafting of the quadrangle.
44. Comparison with Existing Topographic Surveys.

This manuscript has been compared with the following earlier U.S.C.& G.S. topographic surveys and supersedes them in all common detail:

T-310   1:20,000   1850  
T-2869  1:20,000   1907-8  
T-2957  1:20,000   1908-9  

This manuscript has also been compared with the following published quadrangles and good agreement exists considering the difference in published scale and the dates of the surveys:

USGS, Kilmarnock, Va. (15')  1:62,500  1942  
USGS, Kilmarnock, Va. (15')  1:62,500  1917 reprint

45. Comparison with Nautical Charts.

This manuscript has been compared with U.S.C.& G.S. Nautical Chart 534, scale 1:40,000, and good agreement exists between them except that the positions of the non-floating aids to navigation listed on form 567, attached to this report, are in disagreement.

Manuscript T-8343 has not been applied to nautical charts as of the date of this report.

Reviewed by: Reviewed under direction of:

Michael G. Misulia    S. V. Griffith  
Photogrammetrist    Chief, Review Section  
6 May 1946  12 May 1947

Rereviewed by:

Howard W. Thune  
Photogrammetrist  
12 May 1947
APPROVED BY:

M. Moore 10/49
Technical Asst. to the Chief, Division of Photogrammetry

H. W. Edmondson
Chief, Nautical Chart Branch Division of Charts

O. J. Reading 11/49
Chief, Div. of Photogrammetry

W. M. Seafie
Chief, Div. of Coastal Surveys
# Record of Application to Charts

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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.