

8164

8164

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Topographic Quadrangle
Name	Tangier
Field No.	Island
Office No.	T-8164
N3745-W7552.5/7.5 LOCALITY	
State	Maryland
General locality	Tangier Sound
Locality	Vicinity of Tangier Island, Chesapeake Bay
194 2	
CHIEF OF PARTY	
Lieut. Comdr. F. L. Gallen	
Lieut. Comdr. Kenneth G. Crosby	
LIBRARY & ARCHIVES	
DATE	September 19, 1945

DATA RECORD

T- 8164

Quadrangle (II): Tangier Island,
~~East and West~~

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):
Mar. 4, 1942, Mar. 27 Aug. 13, 1942.Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office: 10/12/42

Reported to Nautical Chart Section: 10/42

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

Redrafting Completed: 4/12/43

Registered: 9/12/45 Published: 10/2/43

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. 1898

37° 47' 16.589" (511.5m) 75° 58' 26.740" (654.3m)
 Lat.: ~~37° 47' 16.600" (512.0)~~ Long.: ~~75° 58' 26.747" (654.5)~~ Adjusted
~~Unadjusted~~

State Plane Coordinates (VI):
Virginia South Zone.

X = 2729,875.37 feet

Y = 539,374.39 feet

Military Grid Zone (VI)

A

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
8981	4/18/42	2:38	1:20,000	2.2 ft.
8982	"	2:40	"	2.2
8983	"	2:46	"	2.15
8984	"	2:50	"	2.15

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. Lajoie, D.B. Hancock

date: June 1942

Field Edit by: J. R. Evans

date: Oct. 1942

Date of Mean High-Water Line Location (III): 4/18/42

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

Reviewed in compilation office by: J.A.G.

date: Sept. 1942
Oct. 1942

Elevations on Field Edit Sheet
checked by:

date:

None

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:

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T-8164

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:

<u>NAME OF STATION</u>	<u>YEAR</u>	<u>ESTABLISHED BY</u>
Tangier 3	1932	C. D. Meaney
Tangier Sound L. H.	1898, 1932	
Tangier Is. Ch. Spire	1898	
Watts Island L. H.	1849, 1932	

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. 8536 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 on to 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.....	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

This radial plot was unsatisfactory and was re-plotted in the Wash. office during review, covering survey sheets T-8161, T-8162, T-8163 & T-8164. Changes in position of details are noted to detailers on T-8164 at the north west corner of the sheet.

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. Lajoie and Douglas B. Hancock, during June 1942.

Little classification of culture or vegetation was made. Some labeling was done by the draftsman, 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 draftsman 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 *D.K.*
Photogrammetric Aid

Forwarded by:

Kenneth G. Crosby
Kenneth G. Crosby,
Chief of Party.

FIELD EDIT REPORT
T-8164
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. *Charted as such on Chart No. 1223*

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. *None 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 manu-script 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:

<u>FEATURES</u>	<u>COLOR</u>
Additions, bench marks	
Wye elevations, crosses	Black
Deletions	Green

No elevations on BA. None shown
No deletions shown

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
John R. Evans,
Junior Topographic Engineer

Approved:

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T-8164

TO BE CHARTED } STRIKE OUT ONE
~~TO BE DELETED~~LANDMARKS FOR CHARTS
PERMANENT AIDS TO NAVIGATION

Salisbury, Md.

Nov. 2, 1942

I recommend that the following objects which have (~~been~~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 *g. n. k.*

L. L. Gallen
Chart letter 603
1942

F. L. Gallen

Chief of Party.

GENERAL LOCALITY	Tangier Sound, Va.	NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE		LONGITUDE		DATUM							
			°	'	°	'								
								D. M. METERS						
	TANGIER ISLAND LIGHT 1	37	50	22.163 683.3	75	58	18.687 442.3	N.A. 1927	Plane- table	Oct. 1942	X		1223	
	TANGIER ISLAND BEACON 2	37	50	18.342 565.5	75	58	27.852 681.1	"	"	"	X		1223	
	TANGIER ISLAND BEACON 4	37	50	13.331 411.0	75	58	37.258 911.1	"	"	"	X		1223	
	TANGIER ISLAND CHANNEL LIGHT 5	37	50	3.509 108.2	75	58	50.818 1242.7	"	"	"	X		1223	
	TANGIER ISLAND CHANNEL LIGHT 7	37	49	57.335 1767.7	75	59	2.212 54.1	"	"	"	X		1223	
	TANGIER ISLAND BEACON 8	37	49	54.059 1666.7	75	59	9.415 231.5	"	"	"	X		1223	
	TANGIER ISLAND CHANNEL BEACON 10	37	49	45.980 1417.6	75	59	23.492 574.6	"	"	"	X		1223	
	TANGIER ISLAND CHANNEL INNER LIGHT	37	49	42.532 1311.3	75	59	28.288 691.9	"	"	"	X		1223	
	COD HARBOR BEACON	37	48	38.446 1191.5	75	59	13.709 335.4	"	"	"	X		1223	
	COD HARBOR LIGHT (abandoned)	37	48	35.844 1105.1	75	59	23.438 573.4	"	"	"	X		1223	
	WATTS ISLAND LIGHTHOUSE	37	46	56.145 1731.0	75	53	36.911 905.4	"	Triangu- lation	1849	X		1223	
	TANGIER SOUND LIGHTHOUSE	37	47	16.607 512.0	75	58	26.747 654.5	"	"	1898	X		1223	

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.

TO BE CHARTED
~~TO BE CHARTED~~
 STRIKE OUT ONE

Salisbury, Maryland. Nov. 2 1942

LANDMARKS FOR CHARTS

I recommend that the following objects which have ~~(been)~~ 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. ✓ EHK.

Chart letter 603
1942

P. L. Gallon

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.

Elkins KTA
826
T-8164

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON

November 28, 1942.

MEMORANDUM of change in quadrangle name.

The $7\frac{1}{2}$ -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
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. Zens

826 *pls*

28- PFA

750 Eg

November 21, 1942

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

T-8164


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.

*Name recommended accepted by G.S.
12/30/42*

GEOGRAPHIC NAMES LIST FOR T-8164

- ✓ Beach Creek
- ✓ Cansan
- ✓ Canton Ridge
- ✓ Canton Ridge Creek
- ✓ Cod Harbor
- ✓ East Point Marsh
- ✓ East Point Ridge
- ✓ Fishing Gut
- ✓ Fox Islands → applies to entire group of Great and Little Fox Islands, only in part on this sheet.
- ✓ Goose Harbor
- ✓ Great Thorofare
- ✓ Little Fox Islands
- ✓ Little Watts Island
- ✓ Mailboat Harbor ~~← variation for Cod Harbor — not a separate feature~~
- ✓ Main Ridge
- ✓ Man's Island — not shown on compilation, n. side Cod Harbor, near mouth of Canton Ridge Creek.
- ✓ 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

add:

Goose I. ✓

Rum Pt. ✓

East Pt. ✓

West Pt. Mr. Beck

Whale Pt.

Tangier Channel

Little Man I.

Please locate.

- ✓ Fox Islands
- ✓ Mailboat Harbor
- ✓ Man's Island
- ✓ East Point Ridge

GEOGRAPHIC NAMES

Survey No. T-8164

TANGIER ISLAND EAST quadrangle

No. 1 Name on Survey

	A	B	C	D	E	F	G	H	K	
✓✓ Tangier Sound										1
✓✓ Pocomoke Sound ✓										2
✓✓ Watts Island ✓										3
✓✓ Little Watts Island ✓										4
✓✓ Watts Island Lighthouse ✓										5
✓✓ Tangier Sound Lighthouse ✓										6
✓✓ Little Fox Islands ✓										7
✓✓ Fox Islands										8
✓✓ Goose Island ✓										9
✓✓ Rum Point ✓										10
✓✓ Goose Harbor ✓										11
✓✓ Queen Ridge ✓										12
✓✓ The Shells ✓										13
✓✓ The Flats ✓										14
✓✓ Tangier Island ✓										15
✓✓ Canaan ✓										16
✓✓ Rubentown ✓										17
✓✓ Fishing Gut ✓										18
✓✓ Toms Gut ✓										19
✓✓ Oyster Creek Gut ✓										20
✓✓ The Bar ✓										21
✓✓ East Point ✓										22
✓✓ East Point Ridge ✓										23
✓✓ East Point Marsh ✓										24
✓✓ Tangier Creek ✓										25
✓✓ Tangier ✓										26
✓✓ Oyster Creek ✓										27

T-8164

No..1

Remarks.

Decisions

1		378758-60
2		"
3	Not BIG Watts Island	377758-59 USGB
4		"
5		"
6		"
7		378758-60
8	This name applies to Little Fox Islands and also to Great Fox Islands to north of this sheet. Not	"
9	necessary to apply on this sheet, as feature sufficiently named by Little Fox Islands	"
10		"
11		"
12		"
13		"
14		"
15		"
16	omitted - settlement - abandoned - HPA - 8/25/43	"
17	" " " " "	"
18		"
19		"
20		"
21	omitted - - - (water feature)	"
22	On compilation but not in names report: see West Point, No. 2, line 14	"
23	Cannot be located until name sheet arrives	"
24	This is The Point on 1905 topographic survey T-2695 and several current U.S.E. blueprints: apply	"
25	East Point Marsh	"
26		"
27		"
M 234		

GEOGRAPHIC NAMES

Survey No.

T-8164

No. 2

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local 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.	
Oyster Creek Ridge ✓	✓								1
West Ridge ✓	✓								2
West Ridge Creek ✓	✓								3
Main Ridge ✓	✓								4
Canton Ridge ✓	✓								5
Canton Ridge Creek ✓	✓								6
Cod Harbor ✓	✓								7
Beach Creek ✓	✓								8
Sand Spit ✓	✓								9
Man Island ✓	✓								10
Little Man Island ✓	✓								11
Mailboat Harbor ✓	✓								12
Great Thorofare ✓	✓								13
West Point ✓	✓								14
Whale Point ✓	✓								15
Tangler Channel ✓	✓								16
Horseshoe Island ✓									17
									18
									19
									20
The attention of Commander Adams has been called to the question of									21
the title of this quadrangle, which, if the sheet also includes the									22
area west of long. 76°, should presumably be Tangier Island. He will									23
take up question with U.S.G.S.									24
L.H.									25
									26
									27

Remarks.

Decisions

1	<i>To be deleted from proof 8/25/43 HLA</i>	378758-60
2		"
3		"
4		"
5	This is Robbins River on several current U.S.E. blueprints; referred to USGB: apply Canton Ridge	"
6	Creek pending its decision <i>Changed to Canton Creek (HCC) 8-22-43</i>	"
7		"
8		"
9		"
10	This and Little Man Island are not shown at all on compilation: both names and features are found on	"
11	a 1940 U.S.E. blueprint: near mouth of Canton Ridge Creek, north side of Cod Harbor <i>(Islands do appear on manuscript "but are 8/24/43 considered too small to be added. HLA.)</i>	"
12	Presumably this is the anchorage near Tangier: exact location will have to await arrival of name sheet	"
13	<i>To be deleted from proof. 8/25/43 HLA</i>	"
14	This name is from a 1939 U.S.E. blueprint	"
15	From 1939 and 1940 U.S.E. blueprints	"
16	<i>omitted from plate - 8/25/43 HLA</i> 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	<i>omitted</i> "
18	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	
19	compilation, and perhaps photos should be checked.	
20	Vaguely shown on chart 1223.	
21		
22		
23		
24		
25		
26		
27		
M 234		

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.

Horizontal and Vertical Accuracy 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.

T-272	1:20,000	1849	This quadrangle is adequate to
T-309	1:20,000	1850	supersede all the previous surveys
T-2380	1:9,600	1895	except for the wreck shown in
T-2685	1:20,000	1905	Cod Harbor on survey T-2685.
Crisfield	1:62,500	1903	U.S.G.S.
Ewell	1:62,500	1917	U.S.G.S.

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. Rhea
under direction of D. H. Benson *per J.L.S.*

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

Examined and approved:

Charles Peice
~~Chief, Survey Branch~~

K.T. Adams
Chief, Topography Section

J.S. Dorden
Chief, Div. of Charts

Raymond P. Egan
Acting Chief, Div. of Coastal
Surveys

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-Q was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

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

FIELD SURVEYS

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

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

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

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand 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.

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.
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.