

8273

8273

Form 504  
Rev. June 1941  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

*Air Photographic*  
*Plane Table*  
*Hydrographic* } *Survey No.* T-8273  
(Field)

MARYLAND  
LANGFORD CREEK QUADRANGLE  
N3900-W7607.5/7.5

LOCALITY

*State* Maryland  
*General locality* Eastern Shore  
*Locality* Eastern Neck

194 8

CHIEF OF PARTY

F. L. Gallen

U. S. GOVERNMENT PRINTING OFFICE 315561

June 3, 1946

OH  
Lang Creek

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. T-9273

REGISTER NO.

State Maryland

General locality Eastern Shore

Locality Eastern Neck

Scale 1:20,000 Date of survey Aug. 3 - Oct. 11, 19 42

Vessel War Mapping Party No. 1

Chief of party Wm. D. Patterson, - F. L. Gallen

Surveyed by James M. Grover, Dwight L. Greens, A.W. Paul Rogers,  
C. C. Fryer, and Charles Hanavich.

Inked by Dwight L. Greens - A. W. Paul Rogers

Heights in feet above M. S. L. to ground ~~to tops of trees~~

Contour, ~~Approximate contour, Form line~~ interval 20 feet

Instructions dated August 3, 1942  
Supplemental Instructions, August 13, 1942.

Remarks: \_\_\_\_\_

## General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project CS-288A, 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:

### PREPARATION OF BASE MAPS

Planimetric maps had been compiled of this area just prior to the war mapping project. These planimetric maps were reduced from their original scale of 1:10,000 and were compiled into quadrangle base sheets by photographic processing. Prints of these quadrangle base sheets were made on cloth-mounted paper for field work and on aluminum-mounted paper for office drafting.

### FIELD SURVEYS

The field work consisted of a detailed examination of the quadrangle base sheet and the addition of 20 foot contours by planetable methods. All corrections and additions to the planimetry necessary to bring the base sheet up to date of the field work were made by planetable.

Supplementary vertical control for the planetable contouring was established by spirit levels (fly levels) to furnish unmarked elevations at road intersections and numerous other points.

### PROCESSING IN THE WASHINGTON OFFICE

Review. - The field sheet was examined in the Washington Office for completeness of details and compliance with specifications.

Drafting and Reproduction. - The contours and corrections and additions to planimetry were transferred from the field sheet to the color-separation drawings by means of a map projector. Color-separation drawings were then completed in the usual manner. From these drawings, negatives and printing plates were prepared for reproduction of the finished map at scale 1:31,680.

DESCRIPTIVE REPORT TO ACCOMPANY  
T-8273  
MARYLAND  
WAR MAPPING PROJECT CS-288-A  
F.L.Gallen, Chief of Party

INSTRUCTIONS

This work was executed under the Director's Instructions dated August 3, 1942, and Supplemental Instructions dated August 13, 1942.

GENERAL DESCRIPTION OF AREA

The land area on this map manuscript is comprised of a series of points and necks extending out into the lower Chester River. Cultivated and wooded areas are about evenly distributed on the sheet, with numerous marsh points on Easton Neck Island.

ORGANIZATION OF WORK

The survey operations on this quadrangle were undertaken in the following order:

- a - Supplemental levels
- b - Contours and Field Edit
- c - Bridge Classification
- d - Vertical accuracy tests.

Operations "a" and "b" were performed by two 4-man parties; operation "c" by a special 2-man party, and operation "d" by a special 5-man party.

LEVELS

The supplemental levels on the north and west side of the Chester River were run by Dwight L. Greene, Photogrammetric Aid, August 3 - 12, 1942, while the area on the east side was leveled by James M. Grover, photogrammetric Aid, August 18 - 22, 1942.

These levels were controlled from the Coast and Geodetic tidal bench marks, and preceded the second order levels mentioned in paragraph 13 of the instructions for this project.

A wye level, with 16 foot rods, graduated in feet and tenths, was used. Elevations were read to the nearest hundredth. Elevations were taken along the centerline of all principal roads, at intervals of one fourth mile intersections with other roads, hedges, fences, etc. These points were identified on a copy of the map assembly and furnished to the topographer for the control of contours.

All supplemental level lines were closes lines except for a few spur lines of less than  $1\frac{1}{2}$  miles in length, and along roads where the second order levels were to be later run. Level lines whose closures exceeded one foot were re-run; minor level lines (not used for the control of other lines) were not adjusted if the closing error was less than  $3/10$  foot. Temporary bench marks were set along the main level lines for the control of minor level lines. Elevations to the nearest  $1/10$  foot were furnished to the topographer.

Level ties were made with the unadjusted 1942 Second order levels on Eastern Neck by John R. Smith, Engineering Aid, on October 9, 1942, after all contouring on this sheet was completed. The maximum disagreement with the supplemental levels was 0.34 feet. The supplemental levels on this sheet were not adjusted to the Second Order Levels, since in a letter from the Chief of Party of the Second Order Level party it was stated that this line was a doubtful one and that the Second Order elevations might be later adjusted by as much as 0.3 foot. The elevations of the 1942 bench marks established by the Second Order level party are shown on the sheet and are the same as furnished this party.

All supplemental level elevations have been inked in black on the sheet to the nearest  $1/10$  foot and will be of value should five foot contours be added at a later date. All level elevations on this sheet were checked against the original level records by Wendell Bever, Photogrammetric Aid, on October 9, 1942.

#### CONTOURING

The area north and west of the Chester River was contoured by Dwight L. Greene, Photogrammetric Aid, August 21 to September 3, 1942, while the area east of the river was contoured by A. W. Paul Rogers, Photogrammetric Aid, September 11, to October 3, 1942.

The contouring was done directly on a 1:20,000 scale map assembly of the planimetric maps by standard plane table methods, except that plane table positions were located and orientations obtained from the topographic detail shown on the map assembly. Only a few short plane table traverses were run, and in each case, it was used to carry elevations for a plane table set-up.

U. S. Geological quadrangle maps were consulted also, and where discrepancies existed they were noted in the field. Since the Geological Survey quadrangle maps were on a much smaller scale than the work on this project, only a visual comparison was made. In general, the contours to the east of the Chester River shows more numerous indentations than on the U. S. G. S. map, because of closer sketching where timber has been removed, and also because of hand leveling into the wooded areas.

The larger discrepancies are as follows:

- (1) At latitude  $39^{\circ} 00.5'$ , longitude  $76^{\circ} 09.5'$ , the 20-foot contour on lower Tilgman Neck is continuous, whereas the Geological Survey shows several isolated 20-foot contours in this area.
- (2) Two large and two small 20-foot contours were found on Eastern Neck Island, whereas the Geological Survey shows two very small closed 20-foot contours.
- (3) A continuous 20-foot contour was found at latitude  $39^{\circ} 07'$ , longitude  $76^{\circ} 11.5'$ ; the Geological Survey shows a closed 20-foot contour.

All plane table elevations obtained in the field have been inked in brown on the sheet, except where the elevations were on or very close to the contour, in which case, they were left off the sheet. These elevations will be of value should five-foot contours be added at a later date. Useful elevations such as are shown by the Geological Survey were obtained in the field, but no selection was made during the inking of the sheet.

The magnetic meridian shown on the sheet was obtained from orienting along a straight stretch of State Highway No. 445, and was later checked along a road on Corsica Neck.

#### FIELD EDIT

The area north and west of the Chester River was field edited by Dwight L. Greene, Photogrammetric Aid, while contouring. The area east of the river was field edited while contouring by A. W. Paul Rogers, Photogrammetric Aid.

All symbols used during the field edit are standard topographic symbols, except that a green "x" was used for the deletions and a tick mark was used to indicate the limits of deletions, and also, the points of change in the road classification. A list of abbreviations used during the field edit is contained in the back of this report.

#### A. Boundaries

The boundaries of the political districts were drawn on this sheet from maps furnished by the Washington office, after they were verified locally.

#### B. Buildings

All farm buildings except dwellings, have been classified as "b" (barns). This includes large substantial sheds, chicken houses, etc.

All buildings are shown in their relative size, except where individual buildings were so close that they could not be shown on this scale, in such cases the buildings were slightly reduced in size.

Where buildings were attached to each other then solid blocks of buildings were shown.

In general, there were few additions or deletions of the buildings.

#### C. Bench Marks

The descriptions for the second order bench marks, unadjusted, established during 1942 by Mr. Clarence Symms, Jr., Associate Geodetic Engineer, while operating as an independent party, will be submitted by that party directly to the Washington Office.

All of the above 1942 bench marks which fall on this sheet, have been shown.

Tidal Bench marks 1, 2, 3, and tidal bench mark STOOP, at Cliff Point near Chester River, were recovered, and descriptions for these bench marks are submitted with this report. Only the position of tidal bench mark "STOOP" is shown on the sheet.

Earle's Wharf, Tidal Bench Mark No. 1, was found to be destroyed; a description to this effect is submitted.

There are no other permanent bench marks, except as stated above, on this sheet.

#### D. Bridges

Bridge Classifications were made by C. C. Fryer, Photogrammetric Aid, while operating as a special 2-man party. The classifications are in accordance with the instructions from the War Department dated July 23, 1942, and have been shown in "key" on the sheet.

Culverts (span of 20 feet as classified by the U. S. Bureau of Public Roads) have not been indicated on the sheet unless they were not capable of supporting normal loads. In which case, they have been labeled "weak culv" on the sheet.

#### E. Field Culture

All field culture, such as wire fences, brush along fence lines, field ditches, field lines, and wagon tracks have been deleted from the map manuscript. There were no stone fences on this sheet.

#### F. Geographic Names

In accordance with the instructions, no special investigation of geographic names was made. However, the party was on the alert for name discrepancies and new names. The following discrepancies were found:



- (1) Lucys Cove and not Goose Cove; this name was verified by three local farmers, who have resided in the vicinity of this Cove all their lives.
- (2) See item 3 and 4 under "New names that have been added"  
New names that have been added:

- a - Goose Cove: see item 2
- b - Joiners Cove: These two names were verified by three local farmers, who have resided in the vicinity of these coves all their lives.
- c - Back Creek and not Comegy Creek, see item 4.
- d - Fore Creek and not Fort Creek; in each case, these new names (Back Creek, and Fore Creek, were established a few years ago by new land holders, who had purchased the land around these coves, in preference to the old names. This was done in spite of the objections of the old residents in the vicinity, and through insistence by the new residents in calling these two coves by the new names, they are now known and called Back Creek, and Fore Creek.

Back Cr } on U.S. E. Ches.  
Fore Cr } Str. Town "g" map  
and 142375 (1848)

noted  
L.H.

These name discrepancies and new names are to be found at Grey's Inn Creek on the east side of Eastern Neck, and at Comegy Bight on the northeast side of Quarter Neck.

The roads on this sheet do not, in general, have local names. Only two such names were found. They are: Wrights Neck Road and Tilgman Neck Road.

These names were obtained from the County Highway Department in Centreville, Maryland, the local usage of these names was verified by several inhabitants in the vicinity of these roads.

#### G. Drainage

Numerous streams (shown by a full line on the map assembly) were reclassified as intermittent streams. There was a tendency on the air photograph survey to over extend the streams, especially in cultivated fields. These have been deleted where necessary.

#### H. Shoreline

There were no shoreline changes or temporary docks noted on this sheet.

#### I. Power and Telephone Lines

Power lines were treated in accordance with the standard practice of the Geological Survey, i.e. only taunk power transmission lines were shown, except where the lines were located in less developed rural



areas and not along principal highways.

Telephone lines were treated in accordance with the supplemental instructions from the Director, dated August 13, 1942.

There were no power or telephone lines falling in the above categories on this sheet.

J. Roads

All roads have been classified and shown in accordance with the instructions from the Army War College dated January 12, 1942.

K. Woods

The wooded areas have been classified for concealment, types of trees and density. A key to the classification is contained in the back of this report.

JUNCTIONS

This sheet joins quadrangle T-8279 on the north, T-8274 on the east, and T-8267 on the south, T-8272 on the west.

The junctions with quadrangles T-8279 and T-8274 will be discussed in the reports of these sheets since the work is still in progress on both of these sheets.

The junction, both field edit and contours, with quadrangle T-8267 has been checked by Henry M. Eldridge, Photogrammetric Aid, on October 9, 1942, and were found to be in agreement.

STATISTICS

Supplemental levels, statute miles .....	31.5
Contours, square statute miles .....	14.0
Field Edit, square statute miles .....	29.5

TESTS

HORIZONTAL ACCURACY

There were no horizontal accuracy tests in this quadrangle. For tests in this general area see descriptive report for sheets T-8268, T-8278, T-8279.

VERTICAL ACCURACY

The vertical accuracy test for this sheet (latitude 39° 02.5' longitude 76° 08.5' ) was done by Charles Hanavich, Senior Photogrammetric Aid, on October 1, 1942. Three separate contours were run, i. e., 15 - 20 - and 25-foot contours. The results of this test show that 5-foot

contour intervals can be added at a later date without any conflict.

These test contours are shown on the sheet with orange lines connected to black dots; the black dots indicate the elevations on the contour ascertained in the field. *Plan table check showing the vertical accuracy test is filed in the Division of Photogrammetry.*

The tests were run independent of this topographic sheet on a copy of the map assembly after the contouring was finished on this sheet. The test contours were transferred to the map manuscript and checked.

REMARKS

That portion of the sheet north and west of the Chester River was inked by Dwight L. Greene, Photogrammetric Aid. The contours east of the Chester River was inked by A. W. Paul Rogers, Photogrammetric Aid, on October 5, 1942, while the field edit notes were inked by Wendell Bever, Photogrammetric Aid on October 8, 1942.

This sheet is complete, except as stated above, and requires no further field work.

The field work on this sheet was supervised and the report compiled by Edmund L. Jones, Lieutenant.

Submitted by

*E. L. Jones by  
Emil H. Busch*

Edmund L. Jones,  
Lieutenant  
U.S.C. & G. S.

Approved:

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

ABBREVIATIONS  
FIELD EDIT ON MAP MANUSCRIPT  
Project 288 A

BRIDGES ( special party )

<u>First Symbol</u>	One Lane
Capacity	5 m.p.h.
A	50 tons
B	25 "
C	18 "
D	10 "
E	8 "
F	Light vehicles only

Second Symbol

Vertical Clearance	A - over 14'
Clear height for	B - " 13'
width of 10'	C - " 12'
	D - " 11' etc.

Third Symbol ( between curbs )

<u>Horizontal Clearance</u>	A - over 18'
	B - " 17'
	C - " 16'
	D - " 15' etc.

Fourth Symbol - Year of classification  
(substituted for first)

- " U " - Underpass symbol where applicable)
- " T " - Tunnels
- Culv - Culverts

Roads

Classification:

- Rd 1 - Dependable, hard surface
- Rd 2 - Secondary, all weather
- Rd 3 - Loose surface
- Rd 4 - Unimproved, but graded
- Rd 4U - Track road
- Rd 5 - Horse or foot trail
- P - Private road
- W - Width in feet
- RR - Railroad
- Tr - Tracks (R.R.)

Buildings

- D - Dwelling
- B - Barn
- Sto - Store
- Bldg - Building
- Ch - Church
- Sch - School
- P.O. - Post Office
- C. H. - Court House
- R.R. Sta - Rail Road Station
- Hos - Hospital

Woods

Concealment

- A - Trees 10' high - hide troops
- B - Brush, hide troops, impede progress
- C - Scattered brush, hide troops

Density

- 1 - Scattered
- 2 - Thinly wooded
- 3 - Heavily wooded
- 4 - Densely wooded

Type

- D - Deciduous
- P - Evergreen and pine
- R - Brush
- S - Scrub
- L - Young trees

Note:

Woods concealment has been indicated on the sheet by letters A, B, and C, which correspond to Class 1, Class 2, and Class 3 of the instructions.

	Remarks	Decisions
1		
2		390761 USGB
3		"
4		390762
5		391761
6	Referred to USGB: apply Back Creek pending its decision	"
7	Fore Creek found on 1920 USE "Chestertown" quad. and H-2375 (1898)	"
8		" USGB
9		"
10		"
11		"
12		"
13		"
14		" USGB
15		" "
16		"
17		" USGB
18	Do not apply this name	"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"





Remarks.

Decisions

	Remarks.	Decisions
1		391762
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		390761
11		"
12	Use this one name instead of Upper and Lower Spaniard Points. Apply lat. 39°05'30", long. 76°08'40".	" USGB
13		"
14		" USGB
15		"
16		" USGB
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8273

No. 2

Name on Survey

On Chart No. A,  
 On previous survey No. B,  
 On U. S. quadrangle Maps C,  
 From local information D,  
 On local Maps E,  
 P. O. Guide or Map F,  
 Rand McNally Atlas G,  
 U. S. Light List H,  
 K

Name on Survey	A,	B,	C,	D,	E,	F,	G,	H,	K
✓ <u>Skidders Neck</u>									1
✓ <u>Herrington Creek</u>									2
✓ <u>Learys Mill Wharf</u>			<i>seems to have disappeared H&amp;A</i>						3
✓ <u>Browns Cove</u>									4
✓ <u>Prussian Point</u>									5
✓ <u>Browns Point</u>									6
✓ <u>Huntingfield Creek</u>									7
✓ <u>Huntingfield Point</u>									8
✓ <u>Deadman Point</u>									9
✓ <u>Corsica River</u>									10
✓ <u>Spaniard Neck</u>									11
✓ <u>Spaniard Point</u>									12
✓ <u>Ship Point</u> <i>red sheet</i>									13
✓ <u>Town Point</u>									14
✓ <u>Earle Landing</u>									15
✓ <u>Holton Point</u>									16
✓ <u>Middle Quarter Cove</u>									17
✓ <u>Robin Cove</u>									18
✓ <u>Corsica Neck</u>									19
✓ <u>Wright Neck</u>									20
✓ <u>Gordon Point</u>									21
✓ <u>Reed Creek</u>									22
✓ <u>Tilghman Neck</u>									23
✓ <u>Piney Point</u>									24
✓ <u>Piney Cove</u>									25
✓ <u>Butler Cove</u>									26
✓ <u>Earle Cove.</u>									27

T-8273

No. 3

Remarks.

Decisions

	Remarks.	Decisions
1		390761
2		"
3		"
4		"
5		389761
6		"
7		390761
8		"
9		"
10		"
11		390762
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		" U S G B



GEOGRAPHIC NAMES

Survey No. T-8273

No. 3

Name on Survey

Name on Survey	Source of Name										
	A	B	C	D	E	F	G	H	K		
<u>Break Point</u>											1
<u>Tilghman Creek</u>											2
<u>Carpenter Island</u>											3
<u>Abbott Cove</u>											4
<u>Blakeford Point</u>											5
<u>Queenstown Creek</u>											6
<u>Ditchers Cove</u>											7
<u>Nichols Point</u>											8
<u>Grove Creek</u>											9
<u>Hail Point</u>											10
<u>Eastern Neck</u>											11
<u>Cedar Point</u>											12
<u>Cockey Island</u> <i>does not appear on plate</i>											13
<u>Narrows Point</u>											14
<u>Hail Creek</u>											15
<u>Panhandle Point</u>											16
<u>Baybush Point</u>											17
<u>Cabin Cove</u>											18
<u>Wickes Beach</u>											19
<u>Eastern Neck Island</u>											20
<u>Shipyards Creek</u>											21
<u>Durdin Creek</u>											22
<u>Overton</u>											23
<u>Bogle Cove</u>											24
<u>Belts Bar Point</u>											25
<u>Boxes Point</u>											26
<u>Fryingpan Cove</u>											27

Remarks.

Decisions

	Remarks.	Decisions
1		390762
2		" USGB
3		"
4		" USGB
5		" "
6	According to recent hydrographic survey, this islet no longer exists	"
7		"
8		"
9		"
10		"
11		" USGB
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		





## 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, outlines.~~

Descriptive Report.

Division.

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~~ Section.

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 map manuscript - oz alid cloth-backed copy.

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.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8273

LANGFORD 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

The nearest horizontal accuracy test was run in quadrangle T-8268.

A vertical accuracy test was run in this area. See Item Tests in this Descriptive Report.

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.

For previous topographic surveys in this area see descriptive reports for T-5698, T-5701, T-5703, T-5702 and T-5704.

Comparison with Nautical Charts Nos. 548, 1225, 1226.

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:

The details of T-8273 are complete and adequate for chart correction..

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

Only changes of a minor nature were necessary during the review of this map manuscript.

Reviewed Nov. 9, 1942 By Jack S. Rihou  
under direction of D. H. Benson *(per W.M.)*

Inspected by B. G. Jones *B.G. Jones 5/46*

Examined and approved:

K.T. Adams  
Chief, Surveys-Branch  
Division of Photogrammetry

~~Chief, Topography Section~~

Robert W. King  
Chief, Div. of Charts  
Nautical Chart, Branch

Raymond C. Egan  
Chief, Div. of Coastal  
Surveys