8213

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photo. Compilation

Field No. ..... Office No. T-8213

LOCALITY

State South Carolina

General locality Georgetown County

Locality Outland

194 3

CHIEF OF PARTY
Lieut. Comdr. K. G. Crosby
Lieut. Comdr. F. L. Gallen

LIBRARY & ARCHIVES

DATE December 21, 1945

8-1870-1 (1)

8213

Form T-1

DATA RECORD

T- 8213

Quadrangle (II): Outland, . Project No. (II): CS 285

Field Office: Myrtle Beach, S.C. Chief of Party: F. L. Gallen

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

Instructions dated (II III): July 15, 1942 Copy filed in Descriptive Report No. T- (VI)

Completed survey received in office: Aug. 30, 1943

Reported to Nautical Chart Section: Sept. 1, 1943

Reviewed: Nov. 20, 1943 Applied to chart No. Date:

Redrafting Completed: Jan. 15, 1944

Registered: 12/45 Published: 1944

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

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927 Datum Plane (III): M.S.L. 1929

Reference Station (III): Elliott, 1935

Lat.: 33°38'53".651 (1652.9 M) Long.: 79°16'22".578 (581.8m) Adjusted ~~Unadjusted~~

State Plane Coordinates (VI): S. Carolina N.

X = 2,525,617.45 feet Y = 240,370.92 ft.

South Carolina, south zone

x = 2,525,604.85 ft. y = 664,625.38 ft.

Military Grid Zone (VI)

"B"

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
8282	April 2, 1942	-	1:20,000	Inshore Sheet
8338	April 6, 1942		"	
8339	"		"	
8340	"		"	

Tide from (III): --

Mean Range: -- Spring Range: --

Camera: (Kind or source) USC&GS 9 lens (Focal length 8¼")

Field Inspection by: D.G.Flippo, W.W.Doeringfeld date: April-May 1943

Field Edit by: L. Levin date: Sept. 1943

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

Projection and Grids ruled by (III) H.K.B. date: Jan. 8, 1943

" " " checked by: H.K.B. date: Jan. 8, 1943

Control plotted by: H.W.Thune, Jr.Topo.Engr. date: Feb. 12, 1943

Control checked by: W.E.Snyder, Photo. Aid date: Feb. 12, 1943

Radial Plot by: Tampa Office Personnel date: March 12, 1943
" " Rerun by " " " June 21, 1943

Detailed by: F. M. Gaines, Photo. Aid date: Mar.-July 1943

Reviewed in compilation office by: F.H.Elrod, Prin.Photo.Aid date: August 1943
J.H.S.Billmyer, Asst.Photo.Engr.

Elevations on Field Edit Sheet
checked by: L. Levin date: Sept. 1943

STATISTICS (III)

Land Area (Sq. Statute Miles): 61.4

Shoreline (More than 200 meters to opposite shore): None

Shoreline (Less than 200 meters to opposite shore): 12.41 miles

Number of Recoverable Topographic Stations established: None

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: 57

Roman numberals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

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

This quadrangle, together with similar adjoining maps produced under Project C.S. 285 , was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

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

FIELD SURVEYS

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

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

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

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templets) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the ~~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 "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.

FIELD INSPECTION REPORT
QUADRANGLE T-8213
RPOJECT CS-285
F. L. GAILEN, CHIEF OF PARTY

1. All drainage of the area is toward the Pee Dee River except the extreme southwestern edge which drains toward Black Mingo Creek. The drainage as a whole is dendritic and much of the drainage in the middle of the quadrangle follows the drainage pattern of a former river delta.

The ground varies in elevation from sea level to a height of about seventy feet and is highly dissected.

In the center of the Quadrangle and along the southern edge of the Pee Dee River a delta was deposited presumably by the former flow of the Pee Dee River. Since emergence, this delta has been highly dissected by erosion until now only remnants remain.

The quadrangle has many roads, state highways 51, 513 and 707 of which highway 51 is paved. All other roads are made of sand and clay and are not dependable in wet weather. 513

Much farming is carried on in the quadrangle especially on the higher levels of the delta in the central part of the quadrangle.

2. See the report for Quadrangle 8221.

3. See the report for Quadrangles 8237 and 8238.

4-5. See the report for Quadrangle 8221.

6. See the report for Quadrangle 8238.

7-8-9-10-11-12-13. See the report for Quadrangle 8216.

14. See the report for Quadrangle 8238.

15. The dimensions and the load limit of the bridges have been indicated on the photographs but they have not been classified.

16. See the report for Quadrangle 8238.

17. See the report for Quadrangle 8226.

18. Geographic Names is the subject of a separate report for this Quadrangle.

19. All the adjacent Quadrangles join this one on overlapping photographs except to the north. There is no junction with any modern

Tenn. Valley Auth. survey sheet J-46 (Oakton) (junction O.K.)

survey to the north. The junctions between the photographs were checked in the field and should be satisfactory.

Submitted by,

Walter W. Doeringfeld

Walter W. Doeringfeld,
Junior Topographic Engineer.

Approved and forwarded:

F. L. Gallen

F. L. Gallen,
Chief of Party.

COMPILATION REPORT
TO ACCOMPANY
SHEET NO. T-8213

26. CONTROL

The horizontal control for this sheet was plentiful, there being thirteen traverse and one triangulation stations which could be held to on the main radial plot. One S.C.G.S. traverse station, (G-396), could not be used as the "y" coordinate is obviously 300 feet in error.

U.S.G.S. traverse station T-10-N is not a marked station, being a crossroad intersection, therefore it should not be shown on the final reproduction of the quadrangle. ✓

27. RADIAL PLOT

The main radial plot, of which this sheet was a part, is discussed in the compilation report for sheet T-8212.

28. DETAILING

The photographs covering this area were satisfactory for detailing. The field inspection was, in general, satisfactory; however, some difficulty arose due to duplicate inspection in several areas.

In a few areas discrepancies in the classification of vegetation and intermittent streams led to the use of the draftsman's judgement in the matter. A good many streams not visible on the photographs, on account of dense woodland, are shown on the photographs and the survey sheet with the intermittent stream symbol. The streams in all probability should be shown as "P.D.U.", and investigated in the field. (Many streams were investigated in field and corrected on manuscript.)

Contours were not traced out quite to the northern limit of the sheet. They should be completed by the field edit party. A T.V.A. survey to the north was used to complete the contours across the junction. ✓

A road at latitude 33° 44.2' and longitude 79° 20.8' is incomplete on the sheet and should be traced out in the field. (Completed during review) ✓

29. SUPPLEMENTAL DATA

No graphic control surveys by this Bureau, or maps and plans by other organizations, were used to supplement the photographs in the detailing.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

No topographic map quadrangles were available in the Tampa Office with which a comparison could be made.

45. COMPARISON WITH NAUTICAL CHARTS

None of the published nautical charts show the area covered by sheet T-8213 in detail.

Respectfully submitted,

Frances M. Gaines

Frances M. Gaines,
Photogrammetric Aid

Forwarded by:

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

FIELD EDIT REPORT
QUADRANGLE T-8213
PROJECT CS - 285

46. The field edit was accomplished by visual inspection making all additions and corrections on the map manuscript in the field and transferring all detail to a smooth copy while inking.

The following color scheme was adhered to:

FEATURES	COLORS
Additions, bench marks, wye level elevations and crosses	Red
Deletions	Green
Drainage features	Blue
Political boundaries	Violet
Contours and planetable elevations	Brown
Geographic names	Blue

47. The position and amount of detail on this map manuscript is believed to be complete and adequate.

48. A horizontal accuracy test was run in this Quad.. See test traverses #7 and #8 (both satisfactory) filed in B.G.Jones unit.
The vertical accuracy test is the subject of a special report for Project CS-285. o.k. Filed in B.G.Jones unit

49. As noted in the compilation report the contours were not completed to the northern limits of the Quad. It was found that the T. V. A. which has just completed a survey of the Quadrangle to the north had extended their contours to make a junction with the contours in T-8213. A tracing of these contours were obtained from Mr. John F. Barksdale, Regional Engineer, Columbia, S. C.. This tracing has been submitted with the field edit sheet.

Approved and forwarded
F. L. Gallen.
F. L. Gallen
Chief of Party

Submitted by
Louis Levin per FLG
Louis Levin
Photogrammetric Aid

BRIDGE AND TUNNEL CLASSIFICATION

First Symbol	One Lane	Unlimited
Capacity	5 m.p.h.	
A	50 tons	25 tons
B	25 tons	18 tons
C	18 tons	13 tons
D	10 tons	7 tons
E	8 tons	4 tons
F	Light vehicles only	

Second Symbol

Vertical Clearance
- A - over 14 feet
- B - over 13 feet
- C - over 12 feet
- D - over 11 feet, etc.

Third Symbol

Horizontal Clearance
- A - over 18 feet
- B - over 17 feet
- C - over 16 feet
- D - over 15 feet, etc.

Fourth Symbol - Year of Classification.

ROAD CLASSIFICATION FOR MAPS OF ALL SCALES

CLASS	LABEL	STRUCTURE	LOADING
1	Dependable hard-surface heavy duty road.	Concrete, asphaltic concrete bituminus Macadam, H-15 type structures.	Will bear heaviest loads with little maintenance.
2	Secondary, hard-surface all-weather road.	Surface-treated, oiled gravel, waterbound Macadam, structures generally lighter than H-15 but sturdy.	Will bear fairly heavy military loads in all weather if maintained.
3	Loose-surface graded, dry-weather road.	Gravel or stone surface, stable material, selected sand-clay, etc. Drained and graded.	Will bear light military loads in good weather.
4	Unimproved road.	Graded and drained earth, with very light structure.	Generally unsuitable for military loads.
4U	Truck road	Woods roads, farm roads, etc. over which a standard gage vehicle can be driven.	
5	Trail	(Horse trails, foot trails, etc.)	

Roads with more than two (2) lanes are indicated by note along road, e. g. 3 LANE. Change in lanes shown by tick at point of change. Main roads have two lanes unless otherwise marked.

Private roads are designated by the letter P after the road classification.

WOODS CONCEALMENT CLASSIFICATION

Class A: Trees over 10' high and thick enough to hide troops.
Class B: Brush thick enough to hide troops but dense enough to impede progress.
Class C: Scattered brush thick enough to hide troops but not thick enough to impede progress.

FIELD INSPECTION
PROJECT CS-285

BUILDINGS

b - Barn
Bldg - Building
Bo Ho - Boat House
Ch - Church (give name)
Ct Ho - Court House (give name)
P.O - Post Office (give name)
Sch - School (give name)
Hos - Hospital (give name)
RR Sta - Railroad Station
Sto - Country store or gas station
P Sta - Power Station

BOUNDARIES

BDY - Boundary
F B - Fire Break
HDG - Hedge
Park - Park
Cem - Cemetery
Co - County

LANDMARKS

FT - Fire Tower (give name)
TT - Transmission Tower
RT - Radio Tower or mast
Air Bn - Airway Beacon
Bn - Non-lighted aid to navigation
Lt - Lighted aid to navigation
Tk - Low tank
Tk elev - Tank elevated on structure
Stk - Stack

GENERAL

X - delete; except where it pertains to elevations. Use only the abbrev. listed on this page. Do not make up abbreviations.

SHORE LINE

HWL - Mean high water; fast land
LWL - Low waterline
LL - Marsh shore line
M - Marsh
MW - Marsh grass in water
Dk - Dock
Pier - Pier
Se W - Sea Wall
Bkhd - Bulkhead
Jet - Jetty
Dol - Dolphin
Pile - Pile
S - Sand
Mud - Mud
Rk - Rock or rocky
Sty - Stony
Conc - Concrete
Wo - Wood
Blf - Bluff
Dune - Dune

STREAMS AND PONDS

D - Largest ditches only
DK - Small ditch (delete)
IS - Intermittent stream
PD - Probable drainage
Cr - Creek
Ca - Canal
Cv - Culvert
Lev - Levee
Dam - Dam
P - Pond
IP - Intermittent pond

VEGETATION

Gr - Grass
Sw - Swamp
Cy Sw - Cypress Swamp

WOODS AND BRUSH

TYPE	
D	Deciduous
E	Evergreen
Cy	Cypress

CONCEALMENT

Z	Trees 10 feet or more in height, and thick enough when in foliage to conceal troop and vehicles.
Y	Brush and undergrowth thick enough to impede foot troops and conceal troops lying down.
X	Scattered trees not thick enough to conceal troops.
W	Scattered brush not thick enough to conceal troops.

PHYSICAL FEATURES

HG	Higher ground - usually appears in light tone on photograph; either wooded or cultivated area; may be scrub trees or brush. (usually not symbolished on photographs.
LG	Low areas - generally appears dark on photograph; becomes swampy during rainy season; often covered with dense growth of brush.
SW	Swamp - ground covered with water or boggy most of the time; lower in elevation than LG; wooded and/or brush.
M	Salt marshes

NOTE: The above areas are not outlined but sufficient notes are made on each photograph so that the variation in tones can be correctly interpretted in the office.

T-8213

	Remarks	No. 1 Decisions
1		
2		
3		
4		Road Maps
5		"
6		"
7		"
8		U.S.G.B.
9		
10		
11		336792
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		336793
27		"

M 234

GEOGRAPHIC NAMES

Survey No. T-8213

OUTLAND quadrangle

1 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	
Georgetown County,	✓		✓							1
Marion County	✓		✓							2
Williamsburg County	✓		✓							3
State Highway No. 51	✓		✓							4
" 512	✓		✓							5
" 513	✓		✓							6
" 707	✓		✓							7
Pee Dee River	✓		✓							8
										9
										10
Johnny Young Road	✓		✓							11
Sand Ridge	✓ (elevation)		✓							12
Carvers Bay	✓		✓							13
Carvers Bay Road	✓		✓							14
Cribb Crossroads	✓		✓							15
Larrimore Gully	✓		✓							16
Bruortons Road	✓		✓							17
Tyler Creek Bridge	✓		✓							18
Good Hope Road	✓		✓							19
Tyler Crossroads	✓		✓							20
Pennyroal Swamp	✓		✓							21
Boser Swamp	✓		✓							22
Bells Swamp	✓		✓							23
Bells Ridge	(text only of names report)		✗							24
Bruortons	("		✗	"	")					25
Carters Crossroads	✓		✓							26
Good Hope	✓		✓							27

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T-8213

No. 2

	Remarks	Decisions
1		336793
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		337793
21		336793
22		"
23		"
24		337793
25		"
26		"
27		"

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GEOGRAPHIC NAMES

Survey No. T-8213

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	
Good Hope Bridge	✓		✓							1
Pennyroyal Bridge	✓		✓							2
Boser Swamp Bridge	✓		✓							3
Center Crossroads	✓		✓							4
Center Bridge	✓ (text only of names report)		✓							5
Huggins Crossroads	✓		✓							6
Marsh Road	✓		✓							7
Pleasant Hill	✓ (settlement)		✓							8
Flat Swamp	(area)		✓							9
Flat Swamp Run	✓		✓							10
Flat Swamp Bridge	✓		X							11
Squirrel Run	not enough on this sheet, shown 8214		X							12
Squirrel Run Bay	✓		✓							13
Squirrel Run Road	✓		✓							14
Allentown	✓		✓							15
Allentown Road	✓		✓							16
Water Run	✓		✓							17
Water Run Bridge	✓		✓							18
Pleasant Hill Road	✓		✓							19
Barnhill	✓ (settlement)		✓							20
Barnhill Road	✓		✓							21
Bullard Road	Name shown in 8214		X							22
Rogers Crossroads	✓		✓							23
Tomahawk Road	✓		✓							24
Midway Crossroads	✓		✓							25
Miller Crossroads	✓		✓							26
Williams Hill	✓		✓							27

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T-8213

No. 3

	Remarks	Decisions
1		337793
2		"
3		337792
4		"
5		"
6		"
7		"
8		"
9		336792
10		337792
11		"
12		"
13		"
14		337793
15		"
16		"
17		336792
18	Cl. 1 : 12 Edit Cl. 1	337792
19		
20		
21		
22		
23		
24		
25		
26		
27		

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GEOGRAPHIC NAMES

Survey No. T-8213

3 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	
Williams Hill Road	✓		✓							1
Outland	✓		✓							2
Port Hill	✓		✓							3
Port Hill Road	✓		✓							4
Port Hill Landing	✓		✓							5
Pope Crossroads	✓		✓							6
Port Creek	✓		✓							7
Tyler Creek	✓		✓							8
Petersfield Landing (Abd.)			X							9
Britton Neck	✓ (Marion County Map)		✓							10
Jacobs Creek	✓	"	✓							11
Jordan Creek	✓	"	✓							12
Washover Creek	drainage not shown		X							13
Soocee Swamp	(stream)		✓ Williamsburg Co. Map							14
Shaler Branch	✓		✓	"						15
Muddy Creek Road	✓		✓	"						16
Pittman Branch	✓		✓							17
New Ham Lake										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names unverified in red approved by L. Heck 12/9/43

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 1:31,680 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.

Filed in the Photogrammetric ~~Section---Surveys Branch~~ Division

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Review~~ing 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 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.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T- 8213

OUTLAND 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

Horizontal accuracy tests Nos. 7 & 8 were run in this quadrangle. They are both satisfactory and the reports are in the Division of Photogrammetry files.

A vertical accuracy test was also run in this area and the results were satisfactory. The report is in the Division of Photogrammetry files.

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.

There are no previous topographic surveys in this area.

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:

None of the published nautical charts show the area covered by sheet T-8213 in detail.

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. 1943 By Robert Carlson (per W. M.)
under direction of D. H. Benson

Inspected by B. G. Jones 12/6/45

Examined and approved:

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

Robert M. King
Chief, ~~Div. of Charts~~
Nautical Chart Branch

~~Chief, Topography Section~~

Raymond R. Lyman
Chief, Div. of Coastal Surveys