11142

Diag. Cht. Nos. 229 and 1206.

Form 50

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-114 Office No. T-11142

LOCALITY

State New Hampshire

General locality Great Bay

Locality Oyster River to Lamprey River

19# _52

CHIEF OF PARTY
E.H.Kirsch, Chief of Field Party
I.R.Rubottom, Tempa Photo. Office

LIBRARY & ARCHIVES

DATE September 15, 1958

8-1870-1 (1)

11142

DATA RECORD

T -11142

Project No. (II): PH-114(53) Quadrangle Name (IV):

Field Office (II):

Chief of Party:

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: J. E. Waugh

Instructions dated (II) (III):

20 February 1953

Copy filed in Division of

Photogrammetry (IV)

Method of Compilation (III):

Graphic

Manuscript Scale (III):

1:10,000

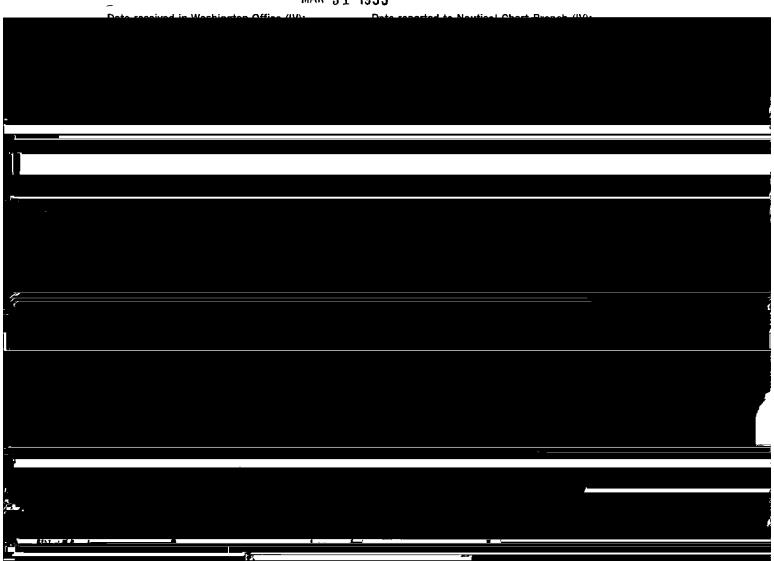
Stereoscopic Plotting Instrument Scale (III):

Inapplicable

Scale Factor (III):

None

MAR 31 1953



DATA RECORD

Field Inspection by (II): None Date: Planetable contouring by (II): Date: Completion Surveys by (II): Date: Mean High Water Location (III) (State date and method of location): Air Photo Compilation 2 July 1952 (Office inspection only) Jack Allen (W.O. Date: 13 Feb. 1953 Projection and Grids ruled by (IV): Projection and Grids checked by (IV): H. D. Wolfe (W.O. Date: 16 Feb. 1953 Control plotted by (III): R. E. Smith 2 Mar. 1953 Control checked by (III): R. R. Wagner 2 Mar. 1953 Date: Date: OCCUPATION DESCRIPTION BY (III): M. M. Slavney 13 Mar. 1953 **Planimetry** Date: Stereoscopic Instrument compilation (III): Inapplicable Contours Date: Manuscript delineated by (III): R. E. Smith Date: 20 Mar. 1953 Photogrammetric Office Review by (III):I. I. Saperstein Date: 24 Mar. 1953 Elevations on Manuscript Date:

checked by (III): None

Camera (kind or source) (III): Single=lens

DEPARTMENT OF AGRICULTURE (Mark Hurd Mapping Company)

			PHOTOGRAPHS (III)	•	
DQW	Number I-9K-12 6	Date 2 July 1952	Time 10:28	Scale 1:10,000	Stage of Tide 2.9 Feet
11	" -1 27	14	10:29	a	tt
ij.	# ⇒128	ú	10:29	tt	Ħ
ta	" - 129	Ħ	10:30	tt	u
m	#-1.30	n _k	10:30	ti .	tī
14	u-131	ų.	10:35	ú	n 🔪
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\$1	"-1 33	Ģ	10:36	ú	ů
11	" - 134	ú	10:36	ů	ή
群	n -1 35	Ú	10:37	ú	ņ
H	4-136	tę.	10:37	ij	11

Tide (III)

Ratio of Spring Mean Ranges Range Range Reference Station: FORTLAND, MAINE Subordinate Station: DOVER POINT, N. H. 0.7 Subordinate Station: -

Washington Office Review by (IV): Date:

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): Shoreline (More-than-200-motors-to-opposite-show) (III): 32

Shorethre (tess than 200 meters to opposite chore) (HI)+

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): Recovered: , Identified: Number of BMs searched for (II): Recovered: Identified: 🕳

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III): 16

Remarks:

Summary to Accompany T-11142

Field instructions were issued for Ph-114 on 13 March 1953 to provide shoreline and control for inshore hydrographic surveys and to provide standard shoreline manuscripts for chart compilation. The hydrographic phase of the survey was accomplished under instructions for C.S.-355, 6 March 1953, 29 January 1954, and 16 February 1955, - Gloucester Harbor, Massachusetts to Biddeford and Saco River, Maine.

T-11142 is one of Part A of the project. This part was compiled without benefit of field inspection. Subsequent to the hydrographic work, the shoreline was revised to conform to information received from the hydrographic party.

A cleth backed lithographic print of each map at manuscript scale and the descriptive report will be registered and permanently filed in the Bureau Archives.

* Control identification and some field infection information was taken from the prior topo mothers propiel.

COMPILATION REPORT T-11142

PHOTOGRAMMETRIC PLOT REPORT.

This report will be submitted at a later date.

** Is filed as a part of Report T11146
31. DELINEATION.

The graphic method was used.

Photographs Nos. DQW-9K-132 through DQW-9K-136 were of fair scale. Photographs Nos. DQW-9K-126 through DQW-9K-130 were of poor scale. The projector was used in the delineation from these photographs.

All detail points and photo-hydro points established by the intersection of two radial lines only have been indicated with ticks.

32. CONTROL.

Sufficient pass points were adequately located by the radial plot to control each photograph.

33. and 34.

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS.

The M. H. W. L. was located by stereoscopic study of the photographs and delineated accordingly.

The limits of alongshore areas outside of the M. H. W. L. which may be shallow, shoal, grass-in-water, marsh, grass-and-mud, or mud have been delineated approximately by a black dashed line. It is requested that these areas be investigated and properly classified. Particular attention should be paid to the following shoreline and corrected if necessary:

ı.	Approximate	Latitude	43° 04'	25"	Lubberland	01
	Approximate	Longitude	70° 54!	30."	μ	

2. Approximate Latitude 43° 04° 33" Approximate Longitude 70° 54° 15"



No foreshore objects were identified on the photographs by the compiler.

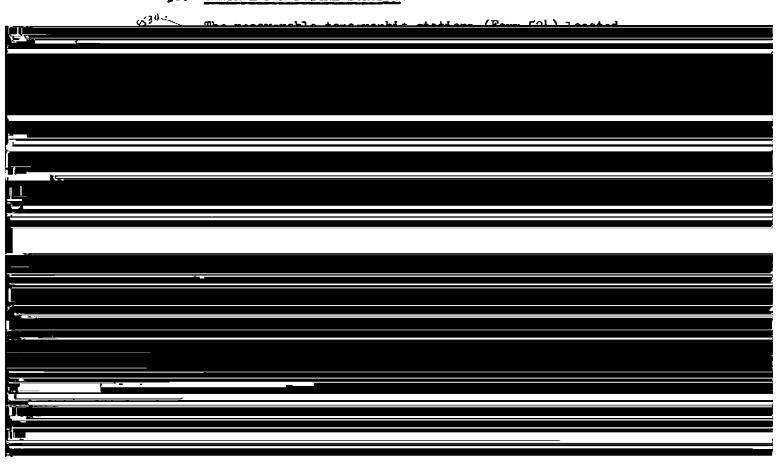
36. OFFSHORE DETAILS.

None observed.

37. LANDMARKS AND AIDS.

To be located by the hydrographer.

38. CONTROL FOR FUTURE SURVEYS.



46. COMPARISON WITH EXISTING MAPS.

Comparison was made with USC&GS Quadrangle T-8530 (). No outstanding shoreline differences were noted.

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with USC&GS Nautical Chart No. 229, scale 1:30,000, published November 1914 and corrected to 26 January 1953. No appreciable changes were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

For Rexford E. Smith
Cartographic Photogrammetric Aid

APPROVED AND FORWARDED:

william A. Rasurl for J. E. Waugh, Chief of Party

48. GEOGRAPHIC NAME LIST.

Only base map names have been shown. They were taken from USC&GS Nautical Chart No. 229.

49. NOTES FOR THE HYDROGRAPHER.

NUMBER

A number of temporary photo-hydro stations were selected in the Tampa Photogrammetric Office for use by the hydrographer. The stations selected and pricked on the photographs consist principally of lone trees, bushes, gables of buildings and the like. An effort was made to select stations about one-quarter of a mile apart; however, it was impossible in certain areas to prick any object whatsoever which could be positively recovered in the field. In small coves and inlets, wherever possible, photo-hydro stations were pricked at closer intervals in order that a fix might be obtained readily.

The number and description of each temporary photo-hydro station follows:

DESCRIPTION

T. Or HADRIC	DESCRIPTION
053GOT/	Lone tree on NW side of small inlet.
o 68	Lone tree on beach, in open area.
069 LAN	The most easterly tree on point of land.
0 7 0 ′ ×	East gable of house.
071 200 TIC	Chimney on house at south end of peninsula.
072 . 1200	The most easterly tree on point.
0 7 3	Large lone tree, in open area.
08H BN2 ,	A bush, the most southerly of line of trees and bushes, about 70 m. inshore.
085 PEN'	Lone tree, the most southeasterly, near shore, in open area.
086 SEN	The center of three trees, the nearest one to the shoreline.
087 IRK	Large lone tree, in clearing, about 10 m. inshore.
088 HOP	West gable of building.
089 JOW	SE corner of east wing of building.

49. NOTES FOR THE HYDROGRAPHER. (CONTINUED)

NUMBER DESCRIPTION

090 GAT South gable of building.

091 X SE corner of seawall.

092 LUM The southeasterly of two bushes, on waters edge.

A cable crossing shown on Nautical Chart No. 229 at Latitude 43° 04.1° Longitude 70° 55.3° could not be identified on the office photographs.

■!! Innat

TIDE COPUTATION

PROJECT NO. Ph. 14 T. 1142

and date of exposure 10:37 2 July 1952 Reference station Portland, Maine

Subordinate station Dover Point, N. H.

•

of field inspection

Ratio of ranges __0.1__

	Time	i i	Height	Height x Ratio
	h.		feet	of ranges
tide	7 32	High tide	7.5	5.0
ide	13 %	Low tide	1.3	6.0
tion of rise	6 03	Range of tide		4.1

		Time	9		
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High tide at Ref. Sta.	9	0	1		_
Time difference	7 1	C 3	Q		_
 Corrected time at Subordinate station	L	(1)	저	•	

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		ᅸ	Ė
Š	ow tide at Ref. Sta.	12	0.4
Tim	fime difference	7 7	ጸ
Cor	Corrected time at Subordinate station	13	34

	h. m.		feet		feet	Photo. No.
• KXXXXI. T. Jired time val	13 34 10 37 2 57	Ht. NXXXX L. T. Tabular correction Stage of tide above MLW	0.9 2.0 2.9	Feature bares Stage of tide above MLW Feature above MLW		DQW-9K-135
e H. T. or L. T. uired time val		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
B. H. T. or L. T. uired time val		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
e H, T, or L. T. uired time val		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
e H, T. or L. T, uired time rval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
e H, T, or L, T, uired time val	······································	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

Computed by R. E. Smith

R. A. Reece

M-2617-12

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11142

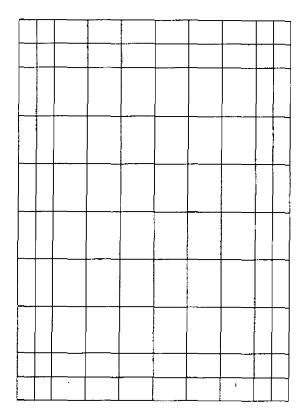
1. Projection and grids I.I.S. _{2. Title} I.I.S. 3. Manu	script numbers I.I.S. 4. Manuscript size I.I.S.
CONTROL Solutions of third-order or higher accurate than third-order accuracy (topographic stations) I.I.S. 7. 9. Plotting of sextant fixes XX 10. Photogrammetric p	cy M.M.S. 6. Recoverable horizontal stations of less Photo hydro stations I.I.S. 8. Bench marks XX
ALONGSHOR	RE AREAS
(Nautical Ch	art Data)
12. Shoreline I.I.S. 13. Low-water line XX 14. Roc to navigation XX 17. Landmarks XX 18. Other a shore cultural features I.I.S.	
PHYSICAL FE	ATURES
20. Water features XX 21. Natural ground cover XX	22. Planetable contours XX 23. Stereoscopic
instrument contours XX 24. Contours in general	
featuresXX	
, : CULTURAL FE	EATURES
27. Roads XX 28. Buildings XX 29. Railroads	
BOUNDA 31. Boundary lines XX 32. Public land lines XX	
MISCELLAN	NEOUS
33. Geographic names <u>I.I.S.</u> 34. Junctions <u>I.I.S.</u> 35.	Legibility of the manuscript I.I.S. 36. Discrepancy
overlay XX 37. Descriptive Report I.I.S. 38. Field	inspection photographs XX 39. Forms I.I.S. william a Reaurl
Reviewer	William A. Rasure Supervisor, Review Section or Unit
41. Remarks (see attached sheet)	••
FIELD COMPLETION ADDITIONS AND C	ORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field complet manuscript is now complete except as noted under item 43	
Compller	Supervisor
43. Remarks:	м.2623-12

T = 11142 REFERENCE ADVANCE REPORT FOR DATA NOT LISTED

Project No. (II): Ph-111:(53) Quadrangle	Name (IV):	
Field Office (II): NEWBURYPORT, MASS.	Chief of Party: E. H. Kirsch	
Photogrammetric Office (III): TAMPA, FIA.	Officer-in-Charge: Ira R. Rubottom	
Instructions dated (II) (III): Supplement No. 1 - 28 March 1953 No. 2 - 30 April 1953 No. 4 - 26 May 1953 No. 4 - 26 May 1953 No. 5 - 25 June 1953 Method of Compilation (III):	Copy filed in Division (Photogrammetry (IV)	of
Manuscript Scale (III):	Stereoscopic Plotting instrument Scale (III):	
Scale Factor (III):		
Date received in Washington Office (IV):	Date reported to Nautical Chart Branch (IV):	
Applied to Chart No. Date:	Date registered (IV):	
Publication Scale (IV):	Publication date (IV):	
Geographic Datum (III):	Vertical Datum (III):	
	Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water	
Reference Station (III):		
Lat.: Lo	ng.: Adjuste Unadjuste	
Plane Coordinates (IV):	State: Zone:	
Y=	χ=	

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

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



Areas contoured by various personnel (Show name within area)
(II) (III)

DATA RECORD

REFERENCE ADVANCE REPORT FOR DATA NOT LISTED.

Field Inspection by (II):	Date:
Planetable contouring by (II):	Date:
Completion Surveys by (II):	Date:
Mean High Water Location (III) (State date and method of location):	
Projection and Grids ruled by (IV):	Date:
Projection and Grids checked by (IV):	Date:
Control plotted by (III):	Date:
Control checked by (III):	Date:
Radial Plot or Stereoscopic	Date:
Control extension by (III):	
Planimetry Stereoscopic Instrument compilation (III):	Date:
Contours	Date:
Manuscript delineated by (III): R. E. Smith	Date: 18 March 1954
Photogrammetric Office Review by (III): J. A. Giles	Date: 29 March 1954
Elevations on Manuscript checked by (ii) (iii):	Date:

Form T-Page 3

M-2618-12(4)

Camera (kind or source) (III):

Number	Date	Time	Scale	Stage of Tide
		Tide (III)		
		٠		Ratio of Mean Spring Ranges Range Range
Reference Station:				
Subordinate Station:			•	
Subordinate Station:				i
Washington Office Revi	• •			Date:
Final Drafting by (IV):	Levas.	Henry		Date: / Dac. 1955
Drafting verified for rep	production by (IV):			Date:
Proof Edit by (IV):				Date:
·	Miles) (III): 8 00 meters to opposite sh 00 meters to opposite sh			
Number of BMs search	n Stations searched for	R€	ecovered: 2	Identified: Identified:
	Photo Hydro Stations establish			

PHOTOGRAPHS (III)

Remarks:

*Nine (9) of these stations were selected and located by the photogrammetric field party and are in addition to those established by the Advence survey.

M-2618-12(4)

10:111 ME E & . - 1: 10:11.

NO FIELD INSPECTION REPORT WAS SURVITTED

COMPILATION REPORT T-11142

PHOTOGRAMMETRIC PLOT REPORT.

This report submitted separately.

** Is filed as a part of Report Till 46
31. DELINEATION.

The graphic method was used.

Photographs DQW 132 through DQW 136 were of fair scale. Photographs DQW-9K-126 through DQW-9K-130 were of such poor scale that the projector was used to effect proper delineation.

All points established by the intersection of two radial lines, that were previously shown with ticks, are now shown with green circles.

There was no field inspection, but with stereoscopic examination and study the delineation is believed to be correct.

32. CONTROL.

Reference Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA.

Inapplicable.

34. CONTOURS AND DRAINAGE.

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS.

Reference Item 35 of advance report.

Upon advice from a member of the photogrammatric field party, the black dashed line previously shown has been changed to the apparent shoreline. All shoreline changes have been made with red acetate ink.

The boat sheets were made available to this office and the low-water line was transferred in pencil. It was not possible to fill in the gaps of the low-water line left by the hydrographer as the line shown does not conform with any discernible tone or line on the photographs. The low-water line as transferred from the boat sheet is being retained on the manuscript in pencil for the convenience of the processing office.

36. OFF SHORE DETAILS.

None observed.

37. LANDMARKS AND AIDS.

Reference Item 37 of advance report.

38. CONTROL FOR FUTURE SURVEYS.

Reference Item 38 of advance report. Additional photo-hydro stations, located by the field party, are listed under Item 49 with their descriptions.

39. JUNCTIONS.

Reference Item 39 of advance report.

LO. HORIZONTAL AND VERTICAL ACCURACY,

Reference Item 40 of advance report.

46. COMPARISON WITH EXISTING MAPS.

Reference Item 46 of advance report.

47. COMPARISON WITH NAUTICAL CHARTS.

Reference Item 47 of advance report.

Rexford B. Smith, Jr. Carto Photo Aid

APPROVED AND FORWARDED:

Ira R. Rubottom, Chief of Party

48. GEOGRAPHIC NAME LIST.

All names shown are base map names. No additions or deletions were submitted by the field inspector.

BAY ROAD
BOSTON AND MAIN RAILROAD
CROMMETH CREEK
DAME ROAD
ELLISON BROOK
GREAT BAY
LAMPREY RIVER
LUBEERLAND CREEK
MOAT ISLAND
MOODYS POINT
NEW HAMPSHIRE
NEW MARKET
OYSTER RIVER
SHACKFORD POINT
STATE 108

Names approved, 12-1-55 a.J.W.

"Shown on U.S. C.&G S. Chart No. 229 (Scale 1:30,000) as "CRUMMETT CREEK"

(Crommet Creek is correct 25 of V.S. Geog. Mames Board Decis., 1954)

19. NOTES FOR THE HYDROGRAPHER.

Reference Item 49 of advance report.

The following nine (9) temporary photo-hydro stations were identified and established by the photogrammetric field party and are in addition to those established on the advance survey. They have been checked photogrammetrically using the graphic method and no changes of positions noted.

WIG - Rock along shoreline

- Rock at H. W. L.

MAX - Large rock

ZIP - Point of rock

POD - Center of bush

WET - Rock offshore

RED - Silo

HIT - White house gable

VIM - House chimney

50.

PHOTOGRAMMETRIC OFFICE REVIEW

т. 11142.....

1. Projection and grids	anuscript numbers 4. Manuscript size 5.6.
(Nautical) 12. Shoreline J.G. 13. Low-water line J.G. 14.	Chart Data) Rocks, shoals, etc. J.G. 15. Bridges J.G. 16. Aids ar alongshore physical features J.G. 19. Other along
20. Water features	FEATURES J.G. 22. Planetable contours 23. Stereoscopic XX 25. Spot elevations 26. Other physical
CULTURAL 27. Roads J.G. 28. Buildings J.G. 29. Railroad	FEATURES ds
BOUN 31. Boundary lines 32. Public land lines	DARIES CX
33. Geographic names J.G. 34. Junctions J.G.	LANEOUS 35. Legibility of the manuscript
FIELD COMPLETION ADDITIONS AND	CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field comp manuscript is now complete except as noted under item	oletion survey have been applied to the manuscript. The 43.
Compiler	Supervisor
43. Remarks:	M-2623-12

Review Report for T-11142 Shoreline Map 1 December 1955

62. Comparison with Registered Surveys:

T-2904

1:10,000, 1908

Great Bay

Differences are due to natural cultural and shoreline changes. The shoreline has advanced in the former grass-in-water areas, which are now true marshes.

Aside from the low bluff symbol and the contours, the present survey supersedes T-2904, in their comparable area; for charting purposes.

63. Comparison with Maps of Other Agencies:

USE Newmarket, N. H. 1:25,000, 1944, from C&GS

T-8530, 1943-44

The maps are in general agreement except that T-11142 has a marsh fringing the Great Bay shoreline and the islands north of Lubberland Creek mouth are joined to the mainland by marsh.

64. Comparison with Contemporary Hydrographic Surveys:

H-8093 (ECFP 1653) 1:10,000, 1953: from Oxbow Cut $(43^{\circ} 00^{\circ})$ to Little Bay $(43^{\circ} 07^{\circ})$.

The shoreline is that of T-11142. This was not altered during review, though some grass-in-water symbol was added.

65. Comparison with Nautical Charts:

229 1:30,000 Nov. 1914, corr. May 1948: Portsmouth to Dover & Exeter

Except for the low bluff symbol and the contours T-11142 supersedes the chart in its area.

66. Accuracy:

Interior delineation meets the National Standards of Accuracy. Shoreline is delineated as accurately as office interpretation permits.

Reviewed by:

Lens T. Stevens

APPROVED BY:

Chief, Review Section Photogrammetry Division

Chief, Photogrammetry Division

Chief, Nautical Chart Branch Charts Division

Chief, Coastal Surveys Division