### 12094

#### FORM C&GS-504

U.S. DE PARTMENT OF COMMERCE Environmental science services administration Coast and geodetic survey

#### DESCRIPTIVE REPORT

<u></u>
Type of Survey SHORELINE (PHOTOGRAMMETRIC)  Field No. Office No. T-12094
LOCALITY
State Maryland - Virginia
General locality Chincoteague Bay
Locality Pope Bay
19.62-1963
CHIEF OF PARTY W. M. Reynolds Chief of Field Party M. J. Tonkel Baltimore Dis. Office
LIBRARY & ARCHIVES

AN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY. (III) PHOTOGRAMMETRIC OFFICE,

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

OR (IV) WASHINGTON OFFICE.

USCOMM-DC 36393A-P66

IELD INSPECTION BY (II):		DATE:
W. M. Reynolds		   Mar-May 1962
EAN HIGH WATER LOCATION (III) (STATE DA	te and method of Location): field inspection photograp	hs.
•		·
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. Roundtree		8-31-62
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
I. Y. Fitzgerald		9-10-62
CONTROL PLOTTED BY (III):		DATE.
L. A. Senasack		11-16-62
		•
CONTROL CHECKED BY (III):		DATE
L. O. Neterer		11-16-62
RADIAL PLOT OR STEREOSCOPIC CONTROL E	EXTENSION BY (III):	DATE
L. W. Fritz L. A. Senasack		10 <b>-</b> 31 <b>-</b> 62 6-6 <b>-</b> 63
STEREOSCOPIC INSTRUMENT COMPILATION (	III): PLANIMETRY	DATE
	L. O. Neterer	12-5-62
	CONTOURS	DATE
WANTED DE MEATER DV (MA		DATE
MANUSCRIPT DELINEATED BY (III):		DATE
J. Councill		1-30-63
JUNIDING DI VIIII.		VO.1-
J. Cregan		5-18-64
PHOTOGRAMMETRIC OFFICE REVIEW BY (III)		DATE
E. L. Rolle		5-18-64

#### **DESCRIPTIVE REPORT - DATA RECORD**

ERA (KIND OR SOURCE) (III):

Wild RC-8

Wild RC-	-8					
	PH	OTOGRAPHS (III)		_		
NUMBER	DATE	TIME	SCALE	57	AGE OF TI	DE
62S 3194-3196	24 Mar. 1962	1025	1:15,000	2.6 ft	. above	MLW
62W 3789-3 <b>7</b> 90	28 Apr. 1962	0945	1:30,000	0.6 ft	. above	MLW
		TIDE (III)	<u> </u>			
				RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Sandy Hook, Ne	w Jersey			4.6	5.6
ORDINATE STATION:	North Beach Co	oast Guard Sta	ation, Md.		3.4	4,1
SUBORDINATE STATION:	•					
WASHINGTON OFFICE REVIEW BY	(IV): Leo F. Be	eugnet, AMC		рате: Ja	n. 1972	
PROOF EDIT BY (IV):		-		DATE:		
NUMBER OF TRIANGULATION STA	ATIONS SEARCHED FOR	3 (II):	RECOVERED:	IDENTIFIE	D:	
NUMBER OF BM(S) SEARCHED FO	R (II):	00	RECOVERED:	IDENTIFIE	D	
NUMBER OF RECOVERABLE PHO	TO STATIONS ESTABLE	SHED (III):	0			
NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS EST.	ABLISHED (III):	0			

REMARKS:

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·	COMPILATION RECORD	COMPLETION DATE	REMARKS
	Compilation complete ўскакаў жінажак	<b>J</b> an. 1963	
,	Final Review	<b>J</b> an. 1972	
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		·	

ONINCOTTABLE DAY
PROMET PROME
PLAMMETTING MAPPING
SCALE, 1:10,000

#### OFFICIAL MILEAGE

•	OLATOTAP LITPEWOR			Harris Description
SHEET NO.	AREA SQ. MI.	LINEAR MI. SHORELINE		
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12094 TOTAL	. 153.3	12	12082	Mary 2 15.0845
			12985	75.62

12078=

12081

75

#### SUMMARY TO ACCOMPANY

#### DESCRIPTIVE REPORT T-12094

Shoreline survey T-12094 covers a part of the shore of Assateague Island in the vicinity of the Maryland-Virginia Boundary. It is one of twenty-one similar surveys in project PH-6103. The primary purpose of the survey was to provide new shoreline for nautical charts and special maps for the State of Maryland, Department of Tidewater Fisheries.

Field operations preceding compilation consisted of recovery and identification of horizontal control, field and shoreline inspection, selection of landmarks for charts and location of fixed aids to navigation.

Compilation was at 1:10,000 scale using the panchromatic photography of March and April 1962. The manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 3 minutes 45 seconds in longitude which was subsequently scribed and reproduced on cronaflex. Final review was in the Atlantic Marine Center in January 1972. One cronaflex positive and a negative are forwarded for record and registry.

## FIELD INSPECTION REPORT MAPS T-12090, T-12093, and T-12094 PROJECT PH-6103

#### 2. Areal Field Inspection.

These maps are located along the eastern coasts of Maryland and Virginia. The land area consists of a part of Assateague Island. This island is a long narrow stretch of sand with marsh along the westerly side. It separates the Atlantic Ocean and Chincoteague Bay. The island is not inhabited with year round residents. There are a few cottages located on the island and these are used during the summer season only.

Chincoteague Bay, which comprises the westerly part of these maps, is used mainly by clam, crab and oyster fishermen.

Field Inspection is believed complete and was performed on the following photographs; 61W6248 through 61W6259, 61W6277 through 61W6286, 62S3175 through 62S3177, and 62S3188 through 62S3201.

The photography was of good quality and no difficulty was encountered in their interpretation in the field.

Field inspection of the bay side of the maps was performed on the 61W series of photographs. The photographs are ratio prints at 1:10,000 scale.

The area suffered a severe storm during March 1962. The storm did little damage or change to the inside shoreline. The outside shoreline suffered considerable damage and was re-photographed after the storm. These photographs were used to locate the mean high water line along the ocean side of the maps. They are the 62S series and are contact prints at 1:15,000 scale.

#### 3. Horizontal Control.

All Coast and Geodetic Survey Control was searched for. Form 526 is submitted for all stations searched for. Horizontal Control was identified in accordance with project instructions.

One station, HOPE 1961 was established south of map T-12093. This station was established by three point fix with a check angle. Observations and computations for establishing this station are enclosed with this data.

The following stations were reported lost:

T-12090 Green Run Inlet Life Saving Station Flagstaff 1907 Pope 1933 T-12093 Lonesome House, East Chimney 1902

T-12094 None

#### 4. Vertical Control.

Inapplicable.

#### 5. Contours and Drainage.

Contours are inapplicable.

Drainage is all runoff from the island into the bay or ocean.

#### 6. Woodland Cover.

Woodland cover was inspected and has been classified on the Photographs.

#### 7. Shoreline and Alongshore Features.

The mean high water line along the ocean was located by measurement from identifiable photo, points. Measurements were taken at approximate ½ mile intervals. These measurements are shown on the 1962 photographs. These distances do not end on any definite berm line on the photographs. This is probably caused by the photography being taken so soon after the storm and the beach had not stabalized. The beach also appears to have built up some since the storm. The measurements are correct and it is believed they are close enough together that the compiler will have no trouble locating this line on the manuscript.

The western side of the island is mainly marsh. The apparent shoreline was inspected by skiff and has been indicated on the 1961 photographs. The two sets of photographs were compared in the field and where noticeable changes occured the 1962 photographs were used. The two sets of photographs have been cross-referenced.

#### 8. Offshore Features.

There are none.

#### 9. Landmarks and Aids.

Landmarks for nautical charts and fixed aids to navigation are adequately covered by Form 567 which is included with this data.

The fixed aids to navigation were located prior to the storm. They were checked immediately after the storm and all were still in place.

#### 1 1. Other Control.

Recoverable Topographic Station SAM (1942) 1962 was e stablished in map T-12090.

#### 11. Other Control Cont'd.

Recoverable Topographic Station GAG (1942) 1962 was established in Map T-12093.

No Recoverable Topographic Stations were established for map T-12094.

In addition to the above, copper weld stakes or natural objects were identified to provide control for the Maryland Department of Tidewater Fisheries. These points were identified so that a sextant fix could be observed any place in the bay. A total of 22 points were established in these maps.

#### 12. Other Interior Features.

The road which shows on the 1961 photographs, on Assateague Island, is not to be mapped. The coastal storm of March 1962 buried the road under several feet of sand. Driving on the island is now along the beach at the whim of the driver.

All landmark buildings have been indicated on the photographs.

A telephone line parallels the road on the northwest side and a local power line on the southeast side. The power line begins at the state line and runs northeast. The telephone line begins south of the project. The southern part of the telephone line has been indicated on photos. 61%6257 and 61%6259. The poles supporting the lines are visible on the 1962 photographs and the lines can be continued by the compiler.

There are no other features.

#### 13. Geographic Names.

A special report on geographic names will be submitted at a later date.

#### 14. Special Reports and Supplemental Data.

Special Report, Geographic Names, Project PH-6103, to be submitted at a later date.

Form 567, submitted with this data, 11 July 1962.

Letter of Transmittal dated 10 July 1962 and forwarded to Washington on 11 July 1962.

Submitted,

William M. Reynolds
Sub-unit Photo. Party 720

# PHOTOGRAPMETRIC PLOT REPORT Project 21039 (PH-6103) Chincoteague Bay, Md. Surveys Nos. T-12086 thru T-12094

#### 21. AREA COVERED

This radial plot covers the areas of the surveys listed above. These are shoreline surveys along Chincoteague Bay and Assateague Island. This radial plot was needed for the compilation of the area and islands west of the Aerotriangulation Bridge Strips 10 and 11 and east of Strip 13B. This includes Tingle Island, Pirate Islands southward to the project limits on the eastern side of Chincoteague Bay. On the western side of Chincoteague Bay the radial plot starts just south of Snow Hill Landing and continues southward to the project limits.

#### 22. METHOD-RADIAL PLOT

Map manuscripts:

Vinylite sheets, with the polyconic projections in black, Maryland Grid in red and/or Virginia South Zone in green which were furnished by the Washington Office.

The positions of all triangulation stations, substitute points and Aerotriangulation Bridge points were plotted on the manuscripts with the coordinatograph.

A sketch showing the layout of the surveys and photograph centers is attached to this report.

Photographs:

Thirty (30) photographs ratioed to the scale of 1:10,000 were used in this plot and are numbered as follows:

61-S-9066 thru 9068 61-S-9298 " 9302 62-W-3757 " 3764 62-W-3786 " 3793 63-W-3382 " 3388

All photographs were printed on single weight paper with the exception of the flight 62-W-3786 thru 3793 which were on cronapaque.

#### Templats:

Vinylite templets were made of all photographs. No master templet was available for these single lens photographs.

Closure and Adjustment to Control:

The radial plot was constructed directly on the map manuscripts. The construction began with the flight 62-W-3736 thru 3793, which held to the stereo-points as dropped in bridge strips number 10 and 11. Flight 62-W-3757 thru 376h was then laid using common points between flights. Flight 63-W-3382 thru 3388 was then laid tying into what was believed to be common stereo-bridge points on bridge 13B. The templets of photos on bridge 13B were added to give stronger position for lights which are aids to navigation.

While laying the templets for photos 61-S-9298 thru 9302, it was noted that it was impossible to make a tie across Chincoteague Bay. The error was as much as from 2 to 3 millimeters. Since this flight did not have any images of the aids to navigation on them and since they were printed on light weight paper, the error could be paper distortion. Since we only needed this flight for delineation of the western shore of Chincoteague Bay, the rays were cut off the templets on the eastern side of the bay. The centers will be only good for delineation on the western side of the bay. All of these centers fall in the water area, and for this reason they are dashed centers on the map manuscripts.

#### Transfer of Points:

The position of all photogrammetric points and photograph centers were pricked on the top templet and drilled down through the templets and map manuscripts.

#### 23. ADEQUACY OF CONTROL

The density and distribution of identified control and stereo-bridge points was adequate.

#### 24. SUPPLEMENTAL DATA

None.

#### 25. PHOTOGRAPHY

The photography was adequate as far as coverage, overlap and image definition. There could be only one suggestion that could be made, and that is where there is a need for a radial plot there is also a need for the photographs to be printed on double weight paper so that the photograph will lay flat and would not distort due to the paper shrinking and expanding and warping.

#### 26. POSITIONS OF AIDS TO NAVIGATION

After all of the templets were taped down onto the map manuscripts the various field cuts to the lights in the area were checked with the radially plotted positions of the office identified lights, which were pricked using as an aid Chart 1220, Revised date 8/6/62. The following is a list of lights and how they were held as comparison with the field angles from the List of Direction. This was done to verify the radial plot.

Chincoteague Bay Light 18 - Without the aid of a radial plot it would have been impossible to locate this point. The cuts as given by the fieldman could have been any of five different points. The cuts from Photo 12 and Boundary Monument Pope Island, 1907 Ecc. missed by approximately 1.5 mm to the scutheast and 4.0 mm to the east respectively. The difference between the intersection of the cuts from Photo Point 09 and Photo Point 08 and the radially plotted position was approximately 0.5 mm. An average point was pricked and drilled.

Chincoteague Bay Light 17 - The image for this light did not fall on any of the 1963 photographs. The field cuts from Photo Point 09, Boundary Monument Pope Island, 1907, Ecc. and Cord (VFC), 1933 made a fairly good intersection. The point pricked and drilled was the mean intersection of these three cuts. The cut from Photo Point 08 fell approximately 2.6 mm to the south and was disregarded.

Chincoteague Bay Light 16 - The cuts from Photo Points 03, 11 and 12 fell within .3 mm of the radial plotted position. The point pricked and drilled was the mean of the afore mentioned. The field cut from Photo Point 08 fell approximately 1.3 mm to the east, and the cut from Boundary Monument Pope Island, 1902 Ecc. fell approximately 3.0 mm to the north. These two cuts were disregarded.

Johnson Bay Light 1 - The field cuts from Photo Points 08 and 11 agree with the strong radial plotted position. The cut from Photo Point 12 was disregarded because it fell approximately 0.7 mm to the east.

Johnson Bay Light 3 - The intersection of field cuts from Photo Points 11 and 12 fell aproximately 0.7 mm from a good three cut radial plotted position. The point pricked and drilled was the mean of these two intersections. The field cut from Pluto Point 08 fell approximately 1.0 mm to the south and was disregarded.

George's Island Landing Light 2 - The field cuts from Photo Point 12 and Cord (VFC), 1933 agreed with the radial plotted position. The intersection of these five rays was pricked and drilled. The field cut from Photo Point 03 fell approximately 1.0 mm to the south while the field cut from Photo Point 13 fell approximately 4.6 mm to the west. These two cuts were disregarded.

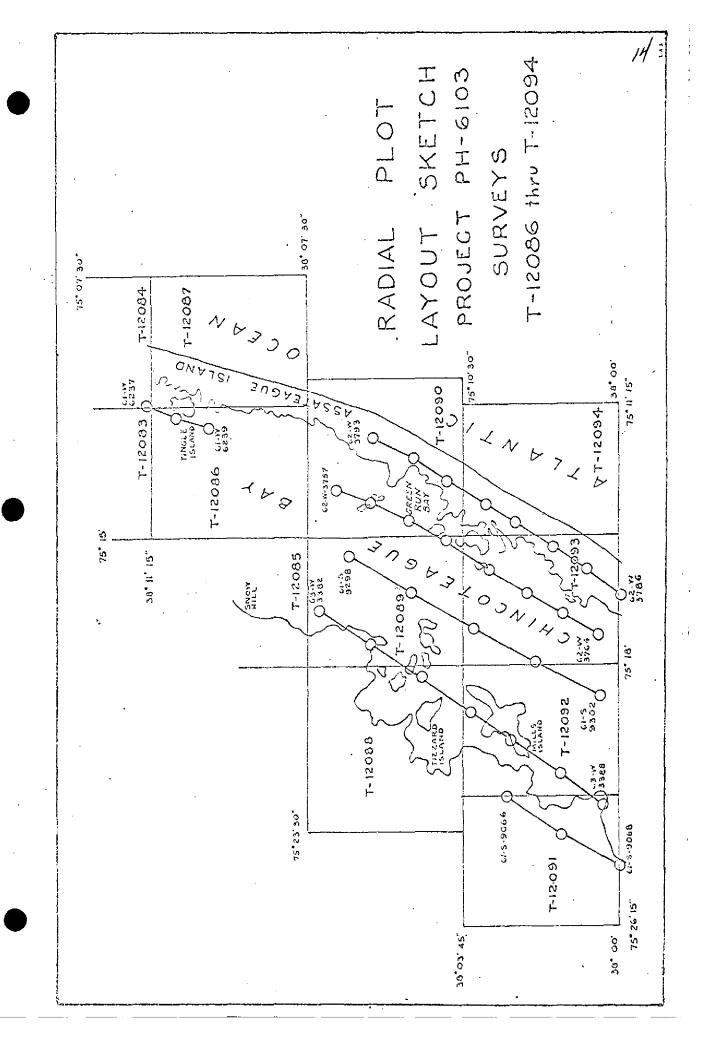
George's Island Landing Light h - The field cuts from Photo Points 03, 12 and Cord (VFC), 1933 agreed with the four ray intersection of the radial plot. The only bad ray, which was disregarded, came from Photo Point 13 which fell approximately 5.3 mm to the southwest.

Greenbackville Light 1 - The position of the intersections of the radial plot, the field cuts and the position for this light as shown on Survey No. T-11660 (Project PH-5907) are all in agreement with each other.

Greenbackville Light 3 - The field cuts from Photo Points 00, 02 and 06 agree with the radially plotted position. This point was pricked and drilled. The position as shown on Survey No. T-11660 (Project PH-5907) falls 0.8 mm to the west. The field cut from Cord (VFC), 1933 fell approximately 0.5 mm to the south. These latter two were disregarded.

Respectfully submitted July 8, 1963

Leroy A. Senasack Cartographer (Photo)



U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

FORM C&GS-164 (4-68) USCOMM-DC 50318-P68

# DESCRIPTIVE REPORT CONTROL RECORD

SCALE FACTOR	ATE DISTANCE FROM GRID OR PROJECTION LINE NATE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)														DATE
SCALE OF MAP 1:10,000	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	38° 01° 36,92959°° 75° 14° 47,10499°°	01.												CHECKED BY
S	DATUM	NA1927	<b>=</b>				i		ı			!	:		
NO. PH-6103	SOURCE OF INFORMATION	VOL. 2 pg 1522	VOL. 2 Pg. 1525						i						DATE
MAP T- 12094 PROJECT NO.	STATION	BOUNDARY MONUMENT POPE ISLAND LIFE SAVING STATION (MGEVa)1907	POPE ISLAND COAST GLARD, 1907					0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9							COMPUTED BY

#### COMPILATION REPORT

T-12094

There was no compilation report with the data for this survey at the time of final review.

January 14, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6103 (Maryland & Virginia)

T-12094

Assateague Island

Atlantic Ocean

Middlemoor

Middlemoor Thorofare

Pope Bay

Pope Island

Twin Island

Approved by:

A. Joseph Wraight Chief Geographer

Prepared by

Cartographic Technician

FORM C&GS-1002			U.	S. DEPARTMENT OF COMMERCE
(9-55)	PHO	TOCRAMMET	RIC OFFICE REVIEW	ESSA COAST AND GEODETIC SURVEY
	1110		12094	
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
ELR	EL	R	ELR	ELR
CONTROL STATIONS				<del>                                      </del>
5. HORIZONT AL CONTROL STA THIRD-ORDER OR HIGHER A	ATIONS OF CCURACY	6. RECOVERAS OF LESS TH (Topographic	BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY (stationa)	7. PHOTO HYDRO STATIONS
ELR		 	ELR	XX
8, BENCH MARKS	9. PLOTTING O	FSEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
XX	хх		ELR	ELR
ALONGSHORE AREAS (Nautical		· · · · · · · · · · · · · · · · · · ·		
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15, BRIDGES
ELR	ELI		ELR	ELR
IN RISS TO TRATION	IV EARDWAIN	•	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
ELR	EL	R	ELR	ELR
PHYSICAL FEATURES  20. WATER FEATURES		21. NATURAL	ROUND COVER	22. PLANETABLE CONTOURS
200 MATER PERIORES			SHOUND COVER	22. FLANETABLE CONTOURS
ELR			ELR	XX
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
XX	хх	· · · · · · · · · · · · · · · · · · ·	хх	ELR
CULTURAL FEATURES	T 20		I 20	
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES
ELR	EL	R	XX	ELR
BOUNDARIES			32. PUBLIC LAND LINES	
31 BOUNDARY LINES				
31. BOUNDARY LINES ELR			XX	
ELR MISCELLANEOUS				
ELR		34 JUNCTIONS		35. LEGIBILITY OF THE MANUSCRIPT
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FIELD EDIT REPORT

T-12094

This survey was not field edited.

#### REVIEW REPORT T-12094

#### SHORELINE

#### JANUARY 26, 1972

#### 61. GENERAL STATEMENT

See Summary, which is page 6 of the descriptive report.

#### 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with a copy of registered survey T-8156, 1:20,000 scale, made in 1942. The surveys are in good agreement except along the outer coast where the shoreline has eroded approximately 40 meters since the time of the last survey.

Survey T-8156 is superseded by T-12094 for nautical chart construction purposes.

#### 63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS WHITTINGTON POINT, MD., VA., 1:24,000 scale quadrangle, edition of 1942. Except for the difference in scale this survey is identical with T-8156 and any differences that exist between T-8156 and T-12094 will also exist between T-12094 and the USGS quadrangle.

#### 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There are no contemporary hydrographic surveys in the limits of this map.

#### 65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 1220, 18th edition, dated July 17, 1971. The surveys appear to be in good general agreement.

#### 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and was found to be adequate for nautical chart construction purposes.

Reviewed by:

Leo F. Beughet Cartographer

Approved for forwarding:

Melvin J. Umbach, CDR, NOAA Chief, Photogrammetry Division, AMC

Approved:

RADM, NOAA Alfred C. Holmes, RADM, NOAA Director, Atlantic Marine Center

Approved;

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division