FORM **C&GS-504**

U.S. DE PARTMENT OF COMMERCE Environmental science services administration COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC) Field No. Office No. T-12088
LOCALITY
State Maryland
General locality Worcester County
Locality Brockatonorton Bay
<u> 19.61-</u> 1963
CHIEF OF PARTY Ray M. Sundean Chief of Party Miller J. Tonkel, Baltimore Dis. Office
LIBRARY & ARCHIVES
DATE



REFERENCE STATION (III):

TIZZ , 1908

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



FIELD INSPECTION BY (II):	DATE:
Robert S. Tibbetts	Jan.Feb. 1962
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PROJECTION AND GRIDS RULED BY (IV):	DATE
A. Roundree	8-30-62
PROJECTION AND GRIDS CHECKED BY (IV):	DATE
I. Y. Fitzgerald	9-10-62
CONTROL PLOTTED BY (III):	DATE
L. A. Senasack	4-3-63
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CONTROL CHECKED BY (III):	DATE
J. O. Nels	
L. O. Neterer	4-3-63
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION B	III): DATE
H.P. Eichert	3-22-63
L.A. Senasack	6-6-63
TEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIM	DATE
L. 0	Neterer 5-1-63
CONTOU	DATE
MANUSCRIPT DELINEATED BY (III):	DATE
J. Councill	5-1-63
SCRIBING BY (III):	DATE
🗗. Cregan	4-28-64
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):	DATE
E. L. Rolle	4-28-64

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RECOVERED:

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DESCRIPTIVE REPORT - DATA RECORD

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	COMPILATION RECORD	COMPLETION DATE	REMARKS	
	Compilation complete	May 1963		
	Final Review	J an. 1972		

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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12088

Shoreline survey T-12088 covers a part of Chincoteague Bay in the vicinity of Boxiron and Johnson Bays. It is one of twenty-one similar maps in project PH-6103. The primary purpose of the survey was to provide new shoreline for nautical charts and special charts for the State of Maryland, Department of Tidewater Fisheries.

Field operations preceding compilation consisted of 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 May 1961. The manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 4 minutes 45 seconds in longitude which was 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-12075, T-12086, T-12088 T-12089, T-12091, and T-12092

PROJECT FE-6103 CHINGGISAGUE RAY, MARYLAND

2. Aresl Field Inspection

The once covered by these six maps is located on the western and northern sides of Chincotenaue Bay. The maps of the Barrier Islands were purposely excluded at this time because of revision needed due to the coastal storm of 6 Merch, 1962. The other maps will be submitted when the new photography has been inspected and control identified.

Chinecteague Bay is generally sheal with the major small beat channels marked by sids. The bay is chiefly used by small pleasure beats and shallow-draft vessels operated by commercial crab and system fishermen.

The land area of the maps consists mainly of mersh

ereas elong the shore.

On maps T-12083 (to be submitted later) and T-12086 color photograpy was taken of fixed sids to navigation. Most of these photos were over open water; therefore, the sids were out-in from triangulation stations.

The quality of the photographs was fair. The aids on maps T-12088, T-12089, T-12091, and T-12093 (to be submitted later) were cut-in from photo points as they could not be seen on the photographs.

It is believed enough photographic tones have been labeled to clarify all tones for the compilers.

3. Forizontal Control

All stations indicated on the project diagram were searched for. Requirements for horizontal control identification as indicated on a special copy of the project diagram were met. Triangulation station LAMPENCE, 1956 was substituted for station HOLSTON, 1942 which could not be recovered.

3. Herizontal Control Contid

The following stations are lost or destroyed and reported on Form 526:

T-12085 ROBINS MAPSH 1933

> 12086 NOME

T-12088

T-12091 MONFX 1907

PUPMELL (VPC) 1933 GREENBACKVILLE, GRACE M. E. CHURCH, 1907

T-12092 LONG (VPC) 1933 LONG FOINT 1902 LONG POINT (M.S.F.C.)1907

4. Vertical Control

There are no tidal bench marks within the areas of these maps.

5. Contours and Drainage

Drainage consists of small creeks and systems of mosquite control ditches in marsh areas. The ditches are readily apparent and were indicated on the photographs.

6. Woodland Cover

The tree areas are mostly pine with some small areas interspersed with hardwoods.

7. Shoreline and Alongshore Features

The shoreline is mostly apparent. Mearly all the shoreline on these maps is a fringe of marsh. The entire shoreline was inspected by skiff and has been indicated on the photographs. There are occasional short stretches of shoreline that are fast land containing sand or shell.

The shoreline was reinspected by skiff after the coastal storm of 6 March, 1962. The to the flooding of the marsh areas the storm had no effect on the shoreline on the west side of Chinocteague Bay.

On map T-12092 some alongshore features were changed. These have been indicated on the photographs.

8. Offshore Features

There are no offshore features worthy of mapping.

9. Landmarks and Aids

There are no outstanding landmarks on these maps to be charted.

Fixed aids to navigation are adequately covered on Form 567.

10. Boundaries, Monuments, and Lines

The Maryland-Virginia state line can be established from the geographic positions of the three monuments along the line which are triangulation.

A copy of the General Highway Map of Wordester

County Maryland is enclosed.

The approximate limits of the Girdletree Wildlife Femonstration Area controlled by the state of Maryland was delineated according to information supplied by Mr. Hamilton Brimer, caretaker of the reserve.

11. Other Control

Four previously marked topographic stations were searched for and two were recovered.

BEVENS WINDMILL (T-12085), and C-58 (T-12088), were recovered. BAY (T-12089) and FUR (T-12092) were not recovered. Forms 524 have been submitted on all these stations.

The recovered topographic stations were reident-

ified on the photographs for this project.

Photo points of natural and physical features were marked with copperweld stakes to provide supplemental horizontal control for the Maryland Department of Tidewater Fisheries. These points were spaced to provide control for visual sextant fixes anywhere in the bay area. The points are identified on the ratio prints and a descriptive sketch of each location was made on the backs of the photographs.

12. Other Interior Features

All reads and buildings have been inspected and classified in accordance with Photogrammetry Instructions Numbers 54 and 56.

The shore ends of all overhead power lines and submerged cables have been indicated on the photographs.

12. Other Interior Features Cont'd

There are no airports or landing fields within this area.

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.

Special Report Coast Pilot, Project PH-6103, to be submitted at a later date.

Morcester County Highway Map enclosed with this data.

The field photographs and all other data for the compilation of these maps are submitted by Letter of Transmittal dated 23 March 1962.

Respectfully submitted 23 March 1962,

Ray M. Sundean Chief, Photo Party 723

PHOTOGRAMMETRIC PLOT REPORT PH-6103 Chincoteague Bay, Md.

March 1963

21. Area Covered

Complete or partial coverage of the following surveys in Chincoteague Bay:

T-12074 thru T-12086

T-12088

T-12089

T-12091

T-12092

See previous reports and sketches covering strips 7, 10, 11.

22. Method

Three strips were bridged and adjusted by analytic aerotriangulation, namely 13a, 13b, and 14.

The attempt was made at first to run one strip from 618 9044 thru 9068. As the result was not satisfactory, the strip was run in two parts with an overlap of six models. This afforded a common area for comparison. In this second attempt photograph 618 9044 was eliminated as its very short base caused a poor cantilever solution.

The bridges turned out satisfactorily as indicated by the closures in the sketch attached. Strip 13a appeared to be the stronger of the two and since the discrepancies between the two in the overlap area were small (only four points out of 57 as great as 0.3 mm at 1:10,000 scale and the majority insignificant) it was decided to accept the values from strip 13a rather than the mean of the two.

Strip 14, to the west, was needed as several models were required to complete coverage. It was run on one control point, DOWNS, 1955 Sub. Pt. "B" and five pass points from strip 13a. The adjustment was very satisfactory with closures of less than 0.2 m/mat 1:10,000 scale.

23. Adequacy of Control

Horizontal control complied with project instructions and was adequate. The sub points for station PINE, 1934, used as

a check showed closures larger than expected (see sketch attached). Seven other triangulation points in this strip held closely. Bridging results comply with National Standards of Map Accuracy for 1:10,000.

24. Supplemental Data

None

25. Photography

Photography was adequate with regard to overlap and definition. Additional photographic coverage is needed for compilation and will be provided. No further bridging is anticipated.

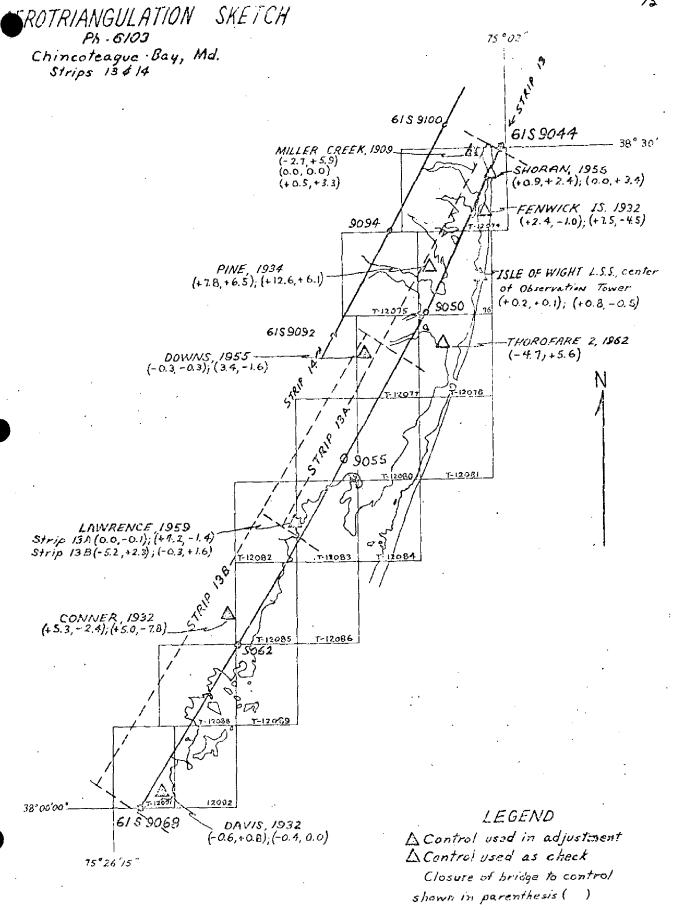
Submitted by:

Henry P. Elchert

Approved by:

Everett H. Ramey

Chief, Aerotriangulation Sec.



PHOTOGRAMETRIC 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.

Templets:

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-3786 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 southeast 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 4 - 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 CENTROL RECORD

SCALE FACTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE TE IN METERS (1 Ft. = 3048006 meter) FORWARD (14 Ft. = 3048006 meter)											
DESCRIPTIVE REPORT CONTROL RECORD SCALE OF MAP 1:10,000	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	38004123,567" 7 75 ⁰ 19158,241"										
PROJECT NO. PH-6103	SOURCE OF INFORMATION DATUM (INDEX)	Vol. 1 NA Pg. 16 1927					-					
MAP T- 12088 PROJECT	STATION	TIZZ, 1908									_	

COMPILATION .REPORT

T-12088

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

January 14, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6103 (Maryland & Virginia)

T-12088

Boxiron
Boxiron Creek
Boxiron Landing
Bridge Creek
Brimer Landing
Brockatonorton Bay
Hall brooks Gut
Hog Island
Hog Island Point
Hudson Landing
Hunting Point
Johnson Bay

Mink Tump
Muddy Thorofare
Pikes Creek
Rattlesnake Island
Ready Cove Tump
Rowley Cove
Sandy Point
Scarboro Landing
Scott Landing
Shelldrake Island
Taylor Landing
Tizzard Island
Truitt Creek
Truitt Landing

Approved by:

A. Joseph Wraight

Chief Geographer

Prepared by:

Frank W. Pickett /

Cartographic Technician

FORM C&GS-1002				J.S. DEPARTMENT OF COMMERCE ESSA
(8-00)	PHO	TOGRAMMET	RIC OFFICE REVIEW	COAST AND GEODETIC SURVEY
			12088	
1. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
ELR	EI	IR	ELR	ELR
CONTROL STATIONS				
5. HORIZONTAL CONTROL ST. THIRD-ORDER OR HIGHER A	ATIONS OF	6. RECOVERAGE	AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
ELR		(Topographic	: stations) ELR	ХХ
8. BENCH MARKS	9. PLOTTING	F SEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS
• • · · ·	FIXES			D. D.
ELR	XX	· · · · · · · · · · · · · · · · · · ·	ELR	ELR
ALONGSHORE AREAS (Nautical 12. SHORELINE	Chart Data)) i lug	14. ROCKS, SHOALS, ETC.	15. BRIDGES
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	13. BRIDGES
ELR	EL	R	ELR	ELR
16. AIDS TO NAVIGATION	17. LANDMARK	S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
ELR	EL	ıR	ELR	ELR
PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL	ROUND COVER	22. PLANETABLE CONTOURS
FID			TI D	7/7/
ELR			ELR	XX
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL		25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
XX	XX		ХХ	XX
CULTURAL FEATURES	1 20		1 20	120
27. RO ADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES
ELR	EL	R	ELR	ELR
BOUNDARIES				
31. BOUNDARY LINES XX			32. PUBLIC LAND LINES	
				
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTIONS	;	35. LEGIBILITY OF THE
			7. 5	MANUSCRIPT
ELR			ELR	ELR
36. DISCREPANCY OVERLAY	37. DESCRIPT	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
ELR	EL	R	ELR	ELR
40. REVIEWER	<u> </u>	 -	SUPERVISOR, REVIEW SECTI	ON OR UNIT
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			i	
E.L. Rolle			<u> </u>	
41. REMARKS (See attached shee FIELD COMPLETION ADDITION		HONE TO THE "	ANHICCDIDT	
				to the manuscript. The manu-
script is now complete exc	ept as noted und	ler item 43.		manuscript. The manu-
COMPILER			SUPERVISOR	
			·	
			1	•
43, REMARKS			<u> </u>	
43. REMARKS				
43. REMARKS				·
43. REMARKS				·
43. REMARKS			<u> </u>	·

FIELD EDIT REPORT

T-12088

This survey was not field edited.

REVIEW REPORT T-12088

SHORELINE

JANUARY 11, 1972

61. GENERAL STATEMENT

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with copies of registered surveys T-8154 and T-8155. Both of these are 1:20,000 scale surveys made in 1941-1942.

These older surveys are superseded by T-12088 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with the 1:24,000 scale USGS BOXIRON, MD., VA. and GIRDLETREE, MD., VA. quadrangles. The surveys are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There are no contemporary hydrographic surveys in this area.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 1220, 18th edition dated July 17, 1971. The surveys are in agreement, no discrepancies were noted.

ADEQUACY OF RESULTS AND FUTURE SURVEYS 66.

This survey complies with instructions and is considered adequate for nautical chart construction purposes.

Reviewed by:

Cartographer

Approved for forwarding:

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

Approved:

Holmes, RADM, NOAA Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch, Chief, Coastal Mapping Division