13134

FORM C&GS-504

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

DESCRIPTIVE REPORT

DESCRIPTIVE REPORT
Type of Survey Shoreline (Photogrammetric)
Field No. Office No. T-13134
LOCALITY
StatePuerto Rico General locality Southwest Coast Locality Punta Ventana
19. 56-69
CHIEF OF PARTY
Alfred C. Holmes. Director, AMC
LIBRARY & ARCHIVES
DATE

FORM C&GS-181a (3-66)		ŧ	ENVIRONMENTAL 50	IENCE SERVIC	MENT OF COMMERCE :ES ADMINISTRATION D GEODÉTIC SURVEY	
	DESCRIPTIVE REF	ORT - DAT	A RECORD	COAST AND	S GEODETIC JON VET	
		T -13 1 34				
OJECT NO. (II):	<u> </u>					
PH-6708					ı	
FIELD OFFICE (II):			CHIEF OF PARTY			
None						
PHOTOGRAMMETRIC OFFICE (III):	· <u>-</u> .		OFFICER-IN-CHARGE			
Atlantic Marine Cente	er, Norfolk, VA		Alfred C. Holmes, Director			
INSTRUCTIONS DATED (III) (III):			<u>.</u>			
OFFICE OFFICE	- Nov. 14, 1967 - SUPPLEMENT 1	- Nov. 4	, 1968			
•						
METHOD OF COMPILATION (III):						
Wild B-8 Plotter	- <u></u> -					
MANUSCRIPT SCALE (III):		COPIC PLOTTING INSTRUMENT SCALE (III):				
1:5,000 Date received in Washington Offi	10 = 10 ab	1 -	O Pantographed To 1:5,000			
DATE RECEIVED IN WASHINGTON OFF	ICE (IV):	DATE REP	DRIED TO NAUTICA	L CHART BRA	NCH (IV):	
APPLIED TO CHART NO.		DATE:		DATE REGIST	TERED (IV):	
				JUI	V 1975	
GEOGRAPHIC DATUM ([]]):		-1	VERTICAL DATU	и (III.): ДТЕР		
			Elevations shown a			
Puerto Rico			Elevations shown a	_		
	•		i.e., mean low wate	er or mean lower	low water	
REFERENCE STATION (III):						
Nońe						
LAT.:	LONG.:		XX ADJUSTED			
u		<u> </u>	UNADJUSTED			
PLANE COORDINATES (IV):		:	STATE		ZONE	
Y =	x =		Puerto Ric	20	ı	
AN NUMERALS INDICATE WEBTER	9 THE ITEM IS TO BE EVE	Reen av (u) n	UELD BARTY (III)	HOTOGBAN	TRIC DESIGN	
OR (IV) WASHINGTON OFFICE.	R THE HEM IS TO BE ENT	א נוו) אם עשאים	TELD PARTY, UNIT	- HO LUGRAMME	TRIC OFFICE,	

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

USCOMM-DC 36393A-P66

FORM C&GS-1815 (3-66) U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-13134

	•	DATE:	
None			
MEAN HIGH WATER LOCATION (III) (STATE DATE	AND METHOD OF LOCATION):		
Air Photo Compilation - Date	e of Photography - Nov. 15, 16,	1966	
	·	T	
PROJECTION AND GRIDS RULED BY (IV):		DATE	
A. Bethea		Oct.	10, 1968
PROJECTION AND GRIDS CHECKED BY (IV):		DATE	
L. F. Van Scoy		Oct.	14, 1968
CONTROL PLOTTED BY (III):		DATE	<u> </u>
Aerotriangulation Points: - Triangulation Stations: -		Nov.	12, 1968
CONTROL CHECKED BY (III):	DATE		
Aerotriangulation Points: - Triangulation Stations: -		Nov.	1 2, 1968
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):	DATE	
I. I. Saperstein		Oct.	31, 1967
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY By: A. L. Shands	DATE	Mar. 14, 1969
	-	1	Mar. 14, 100
Wild B-8	Reviewed By: C. H. Bishop		Mar. 14,1969
-		DATE	•
Wild B-8	Reviewed By: C. H. Bishop		•
Wild B-8 MANUSCRIPT DELINEATED BY (III): A. L. Shands	Reviewed By: C. H. Bishop	DATE DATE	•
Wild B-8 MANUSCRIPT DELINEATED BY (III): A. L. Shands	Reviewed By: C. H. Bishop	DATE DATE March	Mar. 14,196
Wild B-8 MANUSCRIPT DELINEATED BY (III): A. L. Shands SCRIBING BY (III):	Reviewed By: C. H. Bishop contours Inapplicable	DATE March DATE Sept.	Mar. 14,196
Wild B-8 MANUSCRIPT DELINEATED BY (III): A. L. Shands SCRIBING BY (III): C.J. Woodson PHOTOGRAMMETRIC OFFICE REVIEW BY (III) Com	Reviewed By: C. H. Bishop CONTOURS Inapplicable Appilation: C.H. Bishop eld Edit: R. Smith	DATE March DATE Sept.	Mar. 14,196

DESCRIPTIVE REPORT - DATA RECORD

T-13134

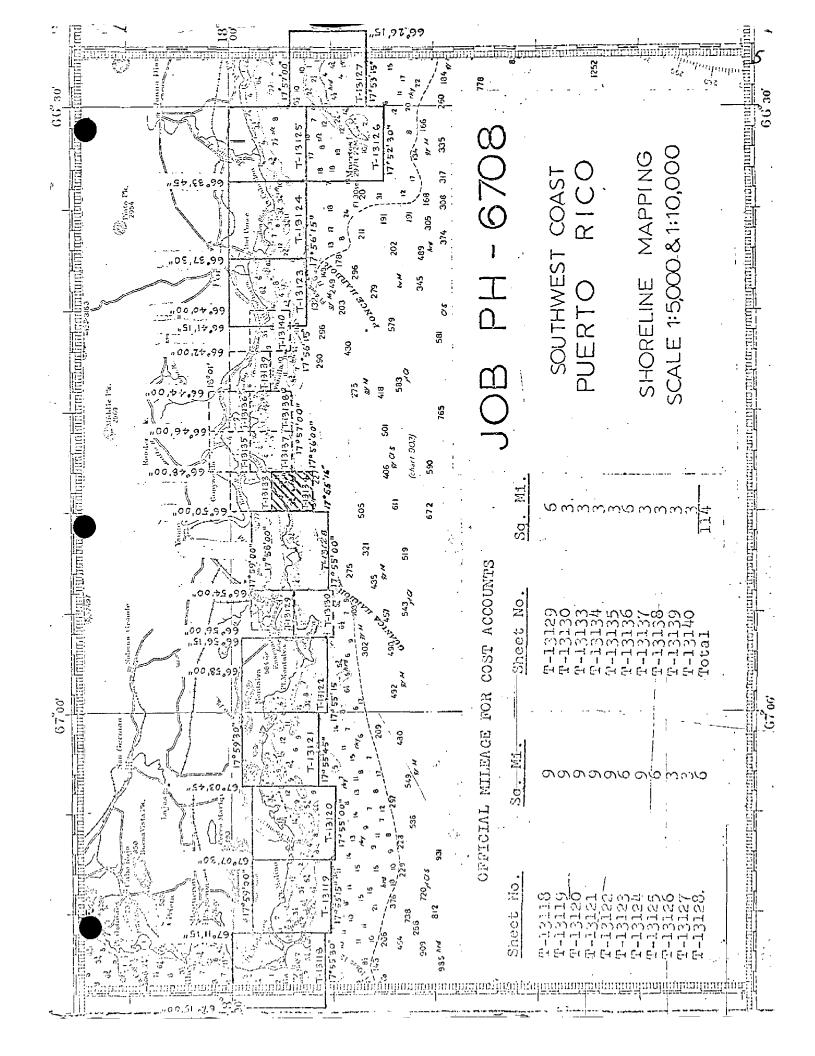
MERA (KIND OR SOURCE) (III):

	PHO	TOGRAPHS (III)				
NUMBER	DATE	TIME	SÇALE	ST	AGE OF TI	DE
66-L-8405 thru 66-L-8407	Nov. 15, 1966	10:39	1:15,000	0.75 a	bove MI	W
	PRED	ICTEDTIDE (III)	<u> </u>	 _	Γ	TURNAI
	,			RATIO OF RANGES	MEAN RANGE	RANGE
REFERENCE STATION:	Galveston, Te	exas				1.4
SUBORDINATE STATION:	o o. 50		0.			
SUBORDINATE STATION:						
WASHINGTON OFFICE REVIEW	BY (IV): Berna	ard Kurs, A	MC	Jan. 19	73	•
PROOF EDIT BY (IV):		<u></u>		DATE:	1	
NUMBER OF TRIANGULATION	identifie None	IDENTIFIED: None				
NUMBER OF BM(5) SEARCHED	IDENTIFIE None	D				
NUMBER OF RECOVERABLE PI	HOTO STATIONS ESTABLIS	HED (III);	None		<u> </u>	
NUMBER OF TEMPORARY PHO						

T-13134

COMPILATION RECORD	COMPLETION DATE	
Alongshore Area For Hydro.	March 1969	Superseded
Field Edit Applied; Compilation Complete	May 1969	Superseded
Final Review	Jan. 1973	·
		·

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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT

T-13134

Shoreline survey T-13134 is one of twenty-one similar surveys in project PH-6708. The project is on the south shore of Puerto Rico and extends from Cabo Rojo to Cayo Berberia. This survey covers the shoreline from just east of Punta Vaquero to slightly north of Punta Ventana.

There was no field work prior to the compilation of this manuscript.

Compilation was by B-8 plotter using November, 1966 photography and at 1:5,000 scale. A copy of the incomplete manuscript along with ozalids and specially prepared photographs were furnished for the preparation of the boat sheet, location of photo-hydro signals and field edit use.

The manuscript was a vinylite sheet 2 minutes longitude by 2 minutes latitude. After field edit was applied the manuscript was scribed, stuck-up and reproduced on cronaflex. Final review was at AMC in January, 1973. One cronaflex and negative of the final reviewed manuscript are being forwarded for record and registry.

FIELD INSPECTION REPORT

T-13134

Project PH-6708

There was no field inspection before the compilation of this map.

PHOTOGRAMMETRIC PLOT REPORT Job PH-6708 Puerto Rico

October 31, 1967

21. Area Covered

This report covers the southwest part of Puerto Rico, consisting of eight (8) 1:10,000 scale T-sheets, T-13118 thru T-13125, and thirteen (13) 1:5,000 scale T-sheets, T-13128 thru T-13140. Photography covering sheets T-13126 and T-13127 was not bridged at this time due to lack of control.

22. Method

Analytic aerotriangulation methods were used to bridge Strip 1, 1:60,000 scale color diapositives, using premarked and office identified control. Numerous tie points were located to control the compilation photography. Strips 3, 5, 5A, 6, 7 and 8 were bridged by analytic methods. Strips 2 and 4 were bridged by stereoplanigraph in order to facilitate the work.

The attached sketch of the strips bridged shows the placement of triangulation used in the final strip adjustment. Closures to control are shown for each strip on the IBM readout, along with all bridge points on Puerto Rico plane coordinates.

23. Adequacy of Control

Horizontal control is adequate to control Strip 1. All other strips were bridged using tie points and horizontal control and is adequate.

The premarked paneling at station PAGEN was removed prior to photography and the subpoint could not be identified. It was decided, therefore, to end Strip 1 with photo 66-M-625 and Strip 6 with photo 66-L-8433. However, it is believed that sheet T-13125 can be adequately compiled.

Station GUANICA L.H. 1900 does not have a valid position. Geodesy did not tie to this station during the 1966 work, and no adjustment was made to the new Puerto Rico datum. (Station has been reported destroyed.) The positions shown on Form 725d computed by Geodesy is arbitrary. Therefore, GUANICA L.H. Subpoint 1 and subpoint 2 are unreliable and were not held in the bridge.

It is to be noted that all horizontal control used on this job and the final pass point positions are on the new Puerto Rico Datum. A Xerox copy of triangulation station positions issued by Geodesy is submitted to the Compilation office with this job. Previously published GP's and plane coordinates should not be used for plotting.

24. Supplemental Data

Vertical control needed for the adjustment was taken from USGS quadrangles.

25. Photography

The definition and quality of the RC-9 "M" and RC-8 "L" color photography was fair and good respectively. Smoke covers parts of some photographs on Strips 3 and 5A, but should not hinder compilation of the shoreline.

Although sheets T-13137 thru T-13140 are covered by 1:15,000 scale photographs, these photographs were not bridged, nor can they be used for compilation on the plotter because of water areas. Strip 3, therefore, should be used to compile the above sheets.

Ratio prints have been ordered for the 1:30,000 and 1:15,000 scale photographs to compilation scale, on black and white base.

Several points were transferred to ratio print 66-L-8394 in order that a reef on T-13140 may be compiled graphically.

Respectfully submitted

Approved and Forwarded

Henry F. Eichert, Chief

Aerotriangulation Section

STRIP T-13121 6 1 49. 1-13123 **ተ**13124 T-13126 T-13125 66M625 T-13127

2. CERRO VERTERO 2(USGS 3. ENSENADA, SOUTH 9 CARDONA ISLAND 4. VAQUERO, 1900 6. GUAYANILLA, UNION CARBIDE CO. W.T. 1966 PONCE, RADIO STATION WELD MAST, 1966 QUANICA MONIC. PONCE BAY FRONT & REAR RANGE LTS. 1966 TURN 2, 1966 DON Q RUM CO. STACK, 1966 WX 1966 FRONT

AEROTRIANGULATION

PUERTO Southwest Coast RICO

H-6708

LEGEND

Control Used 5,000 Photos





DESCRIPTIVE REPORT CONTROL RECORD

SCALE FACTOR None	ORDINATE DISTANCE FROM GRID OR PROJECTION LINE JORDINATE IN METERS (1 Ft. = 3048006 meter) FORWARD FORWARD							
SCALE OF MAP 1:5,000	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	Puerto Rico						
PROJECT NO. PH-6708	SOURCE OF INFORMATION (INDEX)							
MAP T- 13134	STATION	None						



Compilation Report

T-13134

31. DELINEATION

The Wild B-8 stereoplotter was used.

There was no field inspection. The photography was adequate.

32. CONTROL

See Photogrammetric Plot Report dated October 31, 1967.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line and all alongshore detail was delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junction have been made with T-13128 (1:10,000) to the west, T-13133 to the north and T-13137 to the east. There is no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. COMPARISON WITH PREVIOUS SURVEYS

Comparison was made with Previous Survey, Register No. 2534, Ratones Island to Guanica Harbor, Scale 1:20,000, dated February to April 1901.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS Quadrangle PUNTA VERRACO, PR, scale 1:20,000 dated 1958.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 902 SOUTH COAST of PUERTO RICO - GUANICA LIGHT TO PUNTA TUNA LIGHT, Scale 1:100,000, 8th Edition, dated March 15, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHART IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

A. L. Shands

Cartographic Technician

a.L. Shoul

Approved:

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

December 11, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEETS

Ph-6708 (Puerto Rico)

TP-13134

Mar Caribe

Punta Ventana

Approved:

A. Joseph Wreight

Chief Geographer

Prepared by:

Charles E. Harrington

Cartographer

T = 13134

49. NOTES FOR THE HYDROGRAPHER:

None

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FORM C&GS-1002				U.S. DEPARTMENT OF COMMERCE				
PHOTOGRAMMETRIC OFFICE REVIEW								
			3134					
1. PROJECTION AND GRIDS	12 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE				
СНВ	CHB		СНВ	СНВ				
CONTROL STATIONS								
5. HORIZONTAL CONTROL STA	ATIONS OF CCURACY	6. RECOVERAGE	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS				
None		(Topographic	stationa) XX) xx				
8. BENCH MARKS	9. PLOTTING C	FSEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS				
\ x	FIXE5 χ		Bridge-W.O.	СНВ				
	ļ			_ i				
ALONGSHORE AREAS (Nautical 12. SHORELINE	Chart Data)	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES				
		CLINE						
CHB	X .		СНВ	X X				
16. AIDS TO NAVIGATION	17. LANDMARK	s	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONDSHORE CULTURAL FEATURES				
None	Non	ie	CHB	CHB				
PHYSICAL FEATURES	<u> </u>		<u> </u>					
20. WATER FEATURES	3	21. NATURAL	ROUND COVER	22. PLANETABLE CONTOURS				
СНВ			X	xx				
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES				
XX	хх		хх	X				
CULTURAL FEATURES	<u> </u>	···. · · · · · · · · · · · · · · · · ·	<u> </u>					
27, ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES				
СНВ	x		χ	χ				
BOUNDARIES	<u> </u>		<u> </u>					
31. BOUNDARY LINES			32. PUBLIC LAND LINES					
XX	· · · · · · · · · · · · · · · · · · ·	<u>,,, , , , , , , , , , , , , , , , , , </u>	XX					
MISCELLANEOUS 33, GEOGRAPHIC NAMES		34, JUNCTIONS		35. LEGIBILITY OF THE				
STOCKET TO WANTED		Jan Jone Hons	•	MANUSCRIPT				
СНВС			CHB	СНВ				
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS				
СНВ	CHB	}	None	СНВ				
40. REVIEWER			SUPERVISOR, REVIEW SECTI					
Charles H. Bishop		3/21/69	Albert C. Rauck,					
			albut a	Ranck. J.				
41. REMARKS (See attached shee		<u> = = = = = = = = = = = = = = = = </u>		/				
FIELD COMPLETION ADDITION								
script is now complete exc	ept as noted und	ler item 43.		to the manuscript. The manu-				
COMPILER R.E. Smith		May 8/69	I SUPERVISOR allow	t c. Ranck. In				
Reviewed By: R.J. Pate May 8/69 Supervisor Abut C. Rauck. Jr. May 16/69 Albert C. Rauck, Jr.								
43. REMARKS	,		1	· · · · · · · · · · · · · · · · · · ·				
Field Edit Applied	d From: Fi	eld Edit	Ozalid, Color Cont	act Photo No.				
Table and washing	Field Edit Applied From: Field Edit Ozalid, Color Contact Photo No. 66-L-8406; Matte Ratio Photos. Nos. 66-L-							
8405 & 8406								
T		•	Matte Ratio Photos	5. NOS. 60-L-				

FIELD EDIT REPORT
SOUTHWEST COAST OF PUERTO RICO
JOB PH- 6708
MAP T- 13134

52. ADEQUACY OF COMPILATION

Compilation was adequate. The shoreline on this map is composed of irregular rocky coast and, except for minor details was correctly and completely compiled. Bluff delineation was correct and no changes were recommended.

54. RECOMMENDATIONS

There are no recommendations.

55. EXAMINATION OF PROOF COPY

Sr. Oscar Padilla, Urb. Estella Box 28, Guayanilla, Puerto Rico, will be happy to examine a proof copy of the map. Sr. Padilla is the senior harbor pilot of Bahia de Guayanilla.

56. GEOGRAPHIC NAMES

The names on this map are correct and in current local usage.

57. LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

There are no landmarks or fixed aids to navigation within the limits of this map.

58. ROCKS, REEFS, SHOALS AND FOUL AREAS).

Rock compilation was excellant. A few insignificant rocks awash were overlooked and one or two rocks were incorrectly classified. Several submerged rocks were compiled, but, except in one area, the field editor was unable to verify them. These submerged rocks may exist, but bottom characteristics and sea conditions did not permit verification of rocks that were not breaking the surface. Two reefs were indicated on the field edit ozalid as located by prior survey. The northeasterly one consists of many sunken rocks, submerged from two to three feet, is small in area, and definetely submerged. The area where the other reef was indicated was searched extensively but no evidence of a reef was found, nor of the bare rock also indicated. There may be a submerged reef in the vicinity but it could not be identified visually.

There are no shoals on this map.

The majority of the foul areas delineated were deleted. One new foul area was indicated. The rocky shoreline on this coast appears to be atypical for while there are many bare

rocks and rocks awash, the area between and surrounding them appears to be remarkably free of sunken rocks.

59. PHOTOGRAPHY

Photography consisted of 1:5000 ratio matte black and white prints and 1:15000 color contact prints. The photography was adequate.

60. DISPOSITION OF DATA

All field edit data was transmitted to the photo branch, Atlantic Marine Center.

Richard E. Kesselring

REVIEW REPORT

SHORELINE

T-13134

61. GENERAL STATEMENT

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED SURVEYS

A visual comparison was made with a copy of registered survey No. 2468, 1:20,000 scale, dated 1900. There is general agreement between the two surveys.

Registered survey No. 2468 is superseded by T-13134 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with USGS Punta Verraco, PR quadrangle, 1958 at 1:20,000 scale. The shoreline on the quadrangle is very generalized but seems to be in agreement with this survey. Two small reef areas appear on the quad within the limits of this survey. The field editor searched for them but found no trace of their existence.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with boat sheet H-9183 M1-10-3-70 at 1:10,000 scale. The shoreline of this boat sheet is the incomplete manuscript. Since there was no shoreline changes indicated by the field editor there are no differences.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 928, 1:10,000 scale dated March 4, 1972. This could only be done on a short piece of shoreline in the Punta Ventana area since the limits end at this point. Differences are noted on the comparison print. The remainder of the shoreline is covered by Chart 902, 1:100,000 scale dated Feb. 26, 1972. The scale of the chart could only show general agreement.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey meets project instructions and it also meets the National Standards of Map Accuracy.

Reviewed by:

Cartographer

Approved for forwarding:

Dimbach, CDR, NOAA

Chief, Coastal Mapping Division, AMC

Approved:

Alized C. Holmes, RADM, NOAA

Director, Atlantic Marine Center

Approved

Chief, Photogrammetric Branch of Chief, Coastal Mapping Division