T-12144 ORIGINAL

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline	
Job No РН69.94	Map No I-12144
Classification No.	Edition No
Field Edited	Мар
LOCALIT	Υ
State Puerto Rico	
General Locality South. C	
Locality Punta Icacos	
2004119	
19 70 TO	1976
REGISTRY IN AF	RCHIVES
DATE	

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TX. 12144
	CX ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT DATA RECORD	RESURVEY	44D CLASS
DESCRIPTIVE REPORT - DATA RECORD		MAP CLASS Final
PHOTOGRAMMETRIC OFFICE	☐ REVISED	јов Рн. <u>6904</u>
Coastal Mapping Division		ING MAP EDITION
Norfolk, Va.	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	RESURVEY	SURVEY DATES:
Jeffrey G. Carlen, CDR	REVISED	19TO 19
I. INSTRUCTIONS DATED		<u>, </u>
1, OFFICE	2.	FIELD
Compilation 10/16/70	3/7/69	
	1/23/70	
·	1/31/72	
	11/16/72	
14 - 2.7 Due		
II. DATUMS	OTHER (Specify)	
1. HORIZONTAL: 1927 NORTH AMERICAN	Puerto Rico	
X MEAN HIGH-WATER	OTHER (Specify)	-
2. VERTICAL:		
MEAN LOWER LOW-WATER MEAN SEA LEVEL		
3. MAP PROJECTION		CD10(C)
	STATE 4.	GRID(S)
Polyconic	Puerto Rico	1
5. SCALE 1:5,000	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS	<u> </u>	<u>-</u>
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	R. Kelly	Sep 1970
METHOD: Analytic LANDMARKS AND AIDS BY	R. Kelly	Sep 1970
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Corndomat CHECKED BY	P. Dempsey	Oct 1970
OUTAGONIAC	P. Dempsey B. Barge	Oct 1970 Jun 1971
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	A. I. Shands	Jun_1971
INSTRUMENT: Wild B-8 CONTOURS BY	NA	
SCALE: 1:7,500 CHECKED BY	NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	J. Byrd	Jun 1974
CHECKED BY CONTOURS BY	F. Margiotta NA	Jul 1974
метнор: Smooth drafted снескер ву	NA NA	
HYDRO SUPPORT DATA BY	J. Byrd	Jun 1974
SCALE: 1:5,000 CHECKED BY	F. <u>Margiotta</u>	Jul 1974
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	F. Margiotta	Jul 1974
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	D. Butler A. L. Shands	Aug 1976 Sep 1976
7. COMPILATION SECTION REVIEW BY	A. L. Shands	Sep 1976
8. FINAL REVIEW BY	A. L. Shands	Oct 1977
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	A. L. Shands	Dec 1977
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	J.B. Phillips	Jan. 1978
11. MAP REGISTERED - COASTAL SURVEY SECTION BY NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES	R.T. Caton	Mar. 1978

₩ U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B			<u></u>	N A	TIONAL OCE			OF COMMERCE
		201	T~1214	<u>.</u> 4				OCEAN SURVEY
			MPILATIO					
1. COMPILATION PR	OTOGRAPHY	· · · · · · · · · · · · · · · · · · ·						
CAMERA(S) Wild RC 8 '	10.01		TYPE	S OF PHO	TOGRAPHY]	TIME REFER	ENCE
TIDE STAGE REFER			-			ZONE		
X PREDICTED TIDE			(C) CO			Atla	ntic	X STANDARD
REFERENCE STA				NCHROMA Frared	ATIC	MERIDI	AN	DAYLIGHT
TIDE CONTROLL	ED PHOTOGRA	РНҮ	(1)	· · · ·		60th		
NUMBER AN	DTYPE	DATE	TIM	<u> </u>	SCALE		STAGE OF	TIDE
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70E(C) 5784	& 5985	2/27/70	12:32	·	1:15,000	0.2	ft. above	e MLW
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EMARKS								·
2. SOURCE OF MEA	N HIGH-WATER	I INE.						
The MHW	IL was com	piled from th	ne above	liste	d photog	raphs.		
	•					•		
								_
3. SOURCE OF MEA	N LOW-WATER	OR MEAN LOWER LO	OW-WATER	LINE:				
								-
••								
None co	ompiled.							
								
4. CONTEMPORARY	HYDROGRAPH	IIC SURVEYS (List of	only those s	urveys tha	it are sources	for photogram	metric survey in	formation.)
SURVEY NUMBER	DATE(S)	SURVEY COI	PY USED	SURVEY	NUMBER	DATE(S)	SURVE	Y COPY USED
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		<u>}</u> .		<u>İ</u> _			{	
5. FINAL JUNCTION								
NORTH	E	AST		SOUTH				3(1:5,000)
No surv		No survey			161(1:10			(1:10,000
REMARKS Map	T-12144 o	verlaps into ⁰ 04'30"; long	1:10,00	0 scal	e map T-	12161 be	tween lat.	
1800113	0" and 18	04'30"; long	g. 65°47	714511 8	and 65°48	3145"		
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NOAA FORM 76-36B

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NOAA FORM 76-360 (3-72)		T-12144 History of Field	NATIONAL OCEANIC	AND ATMOSPHERIC	NT OF COMMERCI ADMINISTRATION LOCEAN SURVEY
I. X FIELD INSPE	ECTION OPE	RATION FIELD	DEDIT OPERATION		
	ОР	ERATION	NAME	E	DATE
1. CHIEF OF FIEL	D PARTY		J. Wilson		Feb 1970
		RECOVERED BY	J. Wilson		Feb 1970
2. HORIZONTAL C	ONTROL	ESTABLISHED BY	None		
		PRE-MARKED OR IDENTIFIED BY	P.B.W.		Feb 1970
		RECOVERED BY	NA		
3. VERTICAL CON	TROL	ESTABLISHED BY	NA		
		PRE-MARKED OR IDENTIFIED BY	NA Name		
4. LANDMARKS AN		ECOVERED (Triangulation Stations) BY	None		
AIDS TO NAVIG		LOCATED (Field Methods) BY	None None		
		TYPE OF INVESTIGATION	Hone		
5. GEOGRAPHIC N	AME\$	COMPLETE			
INVESTIGATION		SPECIFIC NAMES ONLY			
		XX NO INVESTIGATION			
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	None		
7. BOUNDARIES AL	ND LIMITS	SURVEYED OR IDENTIFIED BY	NA		
II. SOURCE DATA			la lugario	ADDALT STORE	
I. HORIZONTAL C	ONTROL IDE	NITHED ,	2. VERTICAL CONTRO	DE IDENTIFIED	
PHOTO NUMBER	<u></u>	STATION NAME	None PHOTO NUMBER	STATION DES	
70E(C) 5984	GUAYANI	ES 2, 1923			
	lone	ion of details)			
N	lone				
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT.	AME
5. GEOGRAPHIC N	AMES:	REPORT XX NONE	6. BOUNDARY AND LI	MITS: REPOR	T XX NONE
7. SUPPLEMENTAL	L MAPS AND	PLANS	,	. —	
None 8. OTHER FIELD F	RECORDS (SA	etch books, etc. DO NOT list data submit	ted to the Geodesy Division	on)	
1 Form			,		
			<u> </u>	<u> </u>	

NOAA FORM 76-96C (3-72)

NOAA FORM 76-36C (3-72)		NATIONAL OCEANI	U. S. DEPARTME	NT OF COMMERCE
	T-1214	4		L OCEAN SURVEY
	HISTORY OF FIELD	OPERATIONS		
1. FIELD INSPECTION C	PERATION X FIEL	DEDIT OPERATION		
	OPERATION	NA NA	ME	DATE
1. CHIEF OF FIELD PARTY	•			
	RECOVERED BY	WV. Hull None	· <u> </u>	Jun 1976
2. HORIZONTAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED BY	NA		
3. VERTICAL CONTROL	ESTABLISHED BY	NA	·	
	PRE-MARKED OR IDENTIFIED BY	NA		
	RECOVERED (Triangulation Stations) BY	None		
4. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	W. V. Hull		Mar_1976
	TYPE OF INVESTIGATION	None		
	COMPLETE			
5. GEOGRAPHIC NAMES INVESTIGATION	SPECIFIC NAMES ONLY			
	NO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	W. V. Hull		Jun 1976
7. BOUNDARIES AND LIMIT		I NA		3 dil 1970
II. SOURCE DATA		<u> </u>		,
1. HORIZONTAL CONTROL	IDENTIFIED	2. VERTICAL CONT	ROL IDENTIFIED	
NOne .		NOne		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DES	IGNATION
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]		,
		[
3. PHOTO NUMBERS (Clarit	ication of details)	<u> </u>		
•	•			
70 E(C) 5	984 & 5983			
4. LANDMARKS AND AIDS 3	O NAVIGATION IDENTIFIED			
<u>None</u>				
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
			•	
		1		
5. GEOGRAPHIC NAMES:	REPORT XX NONE	6. BOUNDARY AND	LIMITS: REPOR	T NONE
7. SUPPLEMENTAL MAPS A	IND PLANS			
None None				
	(Sketch books, etc. DO NOT list date submit	ted to the Geodesy Divi	iston)	
Field edi				
Field Edi				
1-Form 76	9 -4 0			

NOAA FORM 76-36C



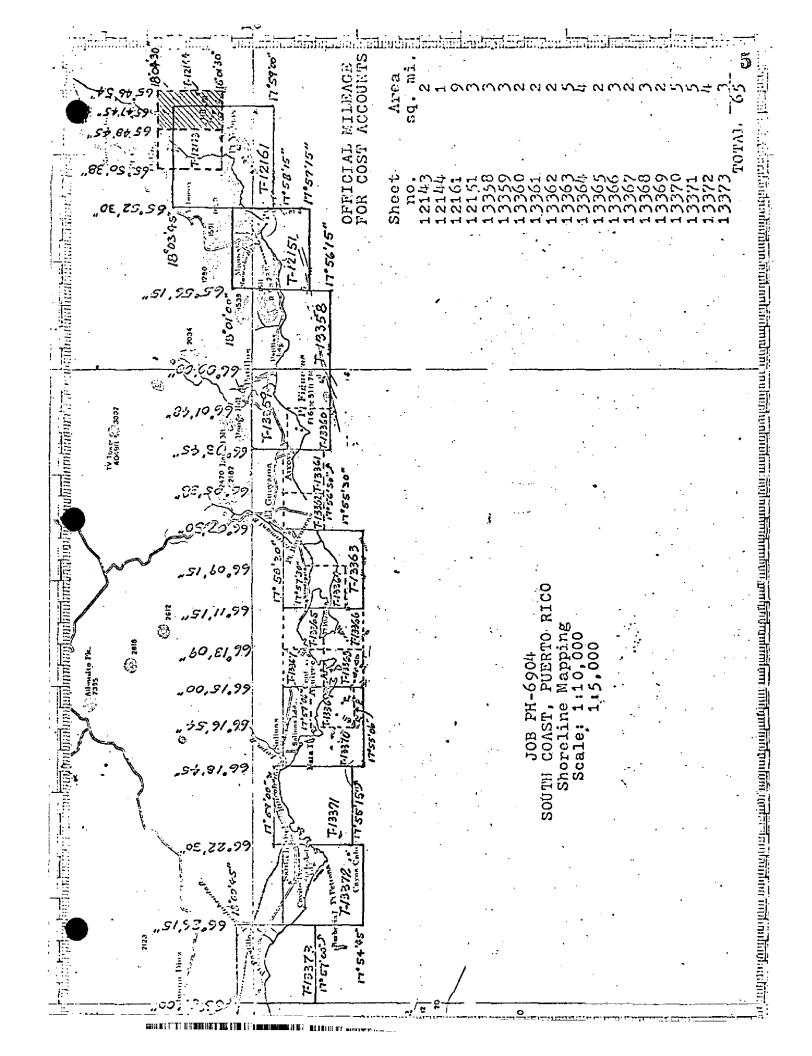
NOAA FORM 76-36D (3-72)

T-12144

U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

RECORD OF SURVEY USE

	C	OMPILATION	STAGES			1	DATE MANUSCR	IPT FORWARDED
DA	ATA COMPILED	DATE		F	EMARKS		MARINE CHARTS	HYDRO SUPPOR
	ion complete, field edit	May 19	74	Class I	II manus	cript		1/2/75 12/2/75
	lit applied. ion complete.	Aug, 1	976	Class I	manuscr	ipt	9/22/76	
Final Re	eview	Oct 19	77	Final			12/30/77	
II. I ANDMA	RKS AND AIDS TO NAVIG	ATION						
	RTS TO MARINE CHART D		TICAL	DATA BRANCH				
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE				REM	ARKS	
ž 1		9-29-	76	Aid fo	r charts			
				Sandon	ALTERNATION	1		
		100						
3. RE	EPORT TO MARINE CHAR EPORT TO AERONAUTICA	AL CHART DI	COAST F	AERONAUTICA	. DATE FOR	WARDED:	ATE FORWARDED:	
1. X B 2. X C 3. K s	RIDGING PHOTOGRAPHS; ONTROL STATION IDENT OURCE DATA (except for C	; X DUPL IFICATION C	ARDS;		OS 567 SUBMI	TTED BY	FIELD PARTIES.	
	ATA TO FEDERAL RECO							
V. SURVEY	EDITIONS (This section		eted eac		ap edition is r		TYPE OF SURVEY	A COMPANY
SECOND	TP -	The state of the s	•			REV	ISED RES	URVEY
EDITION	DATE OF PHOTOGRAP	PHY DATE	OF FIE	LD EDIT	□		MAP CLASS	
	SURVEY NUMBER	一直的	UMBER				YPE OF SURVEY	
THIRD	TP						ISED RES	URVEY
EDITION	DATE OF PHOTOGRAP			LD EDIT	□n.	□m.	MAP CLASS	FINAL
	SURVEY NUMBER	ATTRIBUTE PRODUCT	UMBER				YPE OF SURVEY	
FOURTH	TP		OF FIE	LD EDIT			ISED RES	ÛRVÊY
EDITION	- TOTOGRAP	DATE	OF FIE	LU EDIT	0	The second second	MAP CLASS	Π



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS

T-12143, T-12144, T-12151, T-12161 and T-13358 thru T-13362

The maps included in this summary cover the eastern portion of project PH-6904. They are all standard shoreline maps which severed to provide shoreline in support of hydrographic operations and nautical chart construction. These maps cover the south coast of Puerto Rico from Punta Icacos westward to Punta Barrancas.

Photographs of the area were flown in March, 1970. Glare covers most of the water area. The black and white ratio photographs made from color contact prints are dark and the resolution is not good. Delineation of offshore and alongshore area details was made difficult by these factors.

No clearification of details was made prior to compilation. Precompilation field work was limited to the recovery and identification of horizontal control necessary for bridging.

Compilation was done at the Atlantic Marine Center by instrument and graphic methods. The Wild B-8 stereoplotter was used.

These maps were field edited in March and April, 1976. The edit items were applied to the maps at the Atlantic Marine Center in August and September, 1976.

Final review was preformed at the Atlantic Marine Center in October and November, 1977. The original base manuscripts were forwarded to the Washington Science Center for reproduction and final registration.

FIELD INSPECTION

T-12144

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

Aerotriangulation Report PH-6904 South Coast of Puerto Rico September 1970

21. Area Covered

This report covers the Southern Coast of Puerto Rico, consisting of (9) 1:10,000 scale T-sheets, 12151, 12161, 13358, 13359, 13363, 13370 thru 13373 and (11) 1:5,000 scale T-sheets, 12143, 12144, 13360 thru 13362 and 13364 thru 13369.

22. Method

Two strips 1:40,000 and one strip of 1:5,000 scale color photography were bridged by analytical methods to provide horizontal control points for compilation and shoreline points for ordering 1:10,000 and 1:5,000 scale ratio prints. The attached sketch of the strips bridged shows the placement of horizontal control points used in the strip adjustments. A list of closures to control is part of this report. Positions of all compilation points and control stations have been plotted on the manuscripts by the Coradi.

23. Adequacy of Control

The horizontal control used is on the new adjustment of the Puerto Rico datum. All control was adequate and held well within the accuracy required by National Standards of Map Accuracy at 1:10,000 and 1:5,000 scales. The points were used to augment datum the between strips 1, 2 and 3.

24. Supplemental Data

U. S. Geological Survey quadrangles were used to provide elevations for vertical adjustment of bridges.

25. Photography

RC-8 E color photography was adequate as to coverage overlap and definition.

Submitted by

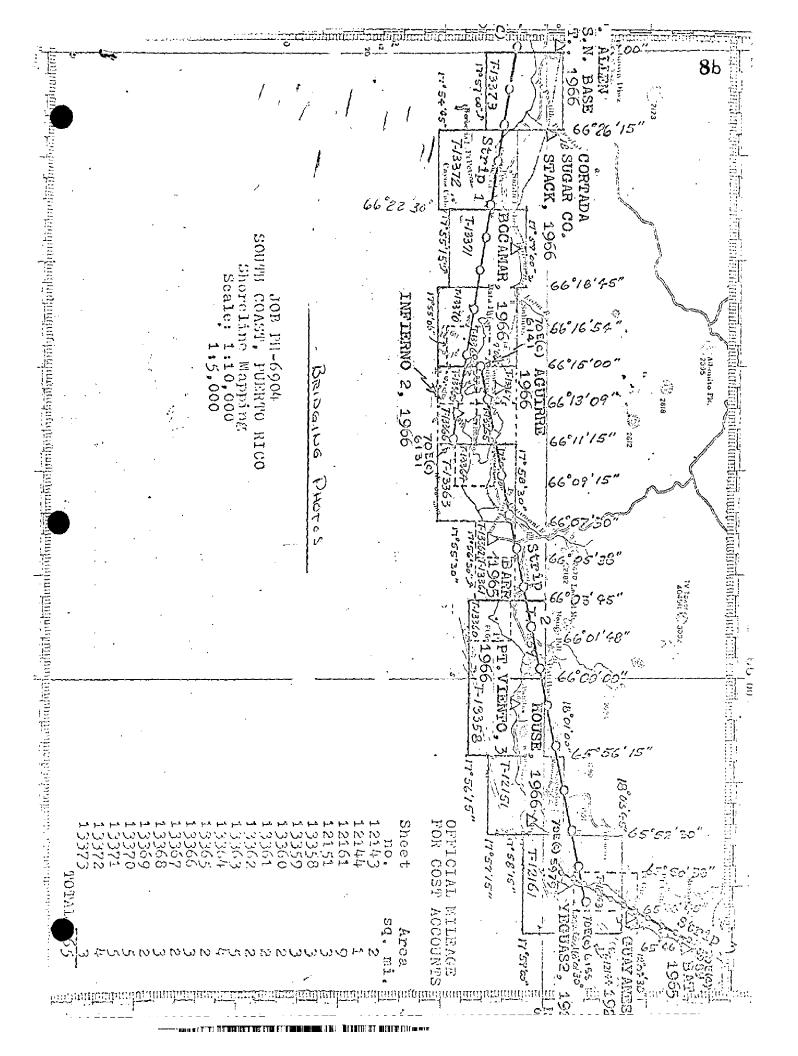
Robert B. Kelly

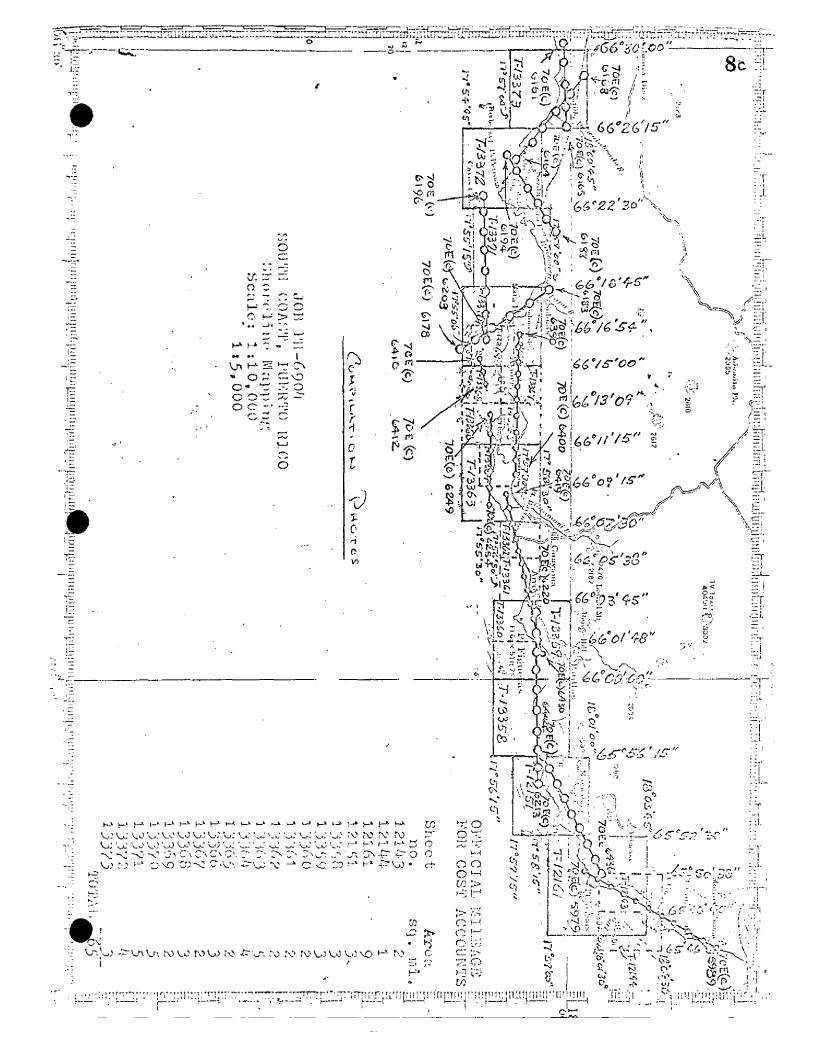
Approvéd and forwarded,

Henry P. Eichert

Chief, Aerotriangulation

Section





TEEND

D CONTRUL USED IN ADJUSTMENT

() CLOSURES OF BRIDGE TO CONTROL SHOWN

IN PARENTHESIS

CONTROL USED AS CHECK.

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Δ FT. ALLEN U.S.D. BASE W.T. (0.0,0.0)

Δ " " SUBSTA.A (-0.4,0.0)

Δ CORTADA SUCAR Co. STACK 1966 (+0.8,+0.1)

Δ " " Substa.A (+1.2,+1.2)

Δ Βοςαμαρ, 1966 Subs. Sta. A (0.0,0.0)

Δ Τωγιερώς 2, 1966 (0.0,0.0)

STRIP 2

INFIERNO 2, 1966 (-0.6,+0.3) (-1.3, +0.6) AGUIRRE, 1966 Δ BARR, 1965 (-0.6, -1.0) Ä Pr VIENTO 3, 1966 (-1.2, -0.8)A HOUSE, 1966 SUB STA. A. (+1.1,+c.a) YEGUAS Z, 1965 (+1.1, -0.6) YEGUAS 2, 1965 SUB STA. A (+0.5, -0.2)

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St810 3

Δ YRGUAS 2,1965 (0.0, 0.0)
Δ YRGUAS 2,1965 SUB STALA (0.0, 0.0)
Δ GUAYANES 2, 1923 (0.0, 0.0)
Δ BAT, 1965 (00, 0.0)

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (363.5) (1101.6)Division BACK 9/9/9 REMARKS FORWARD 662.8 1481.0 Coastal Mapping Norfolk, Va DATE DATE DATE 48.17474 22.53892 λ LONGITUDE ф LATITUDE SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE. 03 48 White 18 65 DESCRIPTIVE REPORT CONTROL RECORD ~ ~ ╼я. 0 0 ↔ • \prec ╼. ~ Ф-⊕ ⊕-~ Φ. Rico œ HAND PLOTTING CHECKED BY COMPUTATION CHECKED BY Puerto Rico Puerto LISTING CHECKED BY GEODETIC DATUM STATE ZONE 7 ž ***** 7 **"** 7 ₽, #fs #X 7 ***** # **"** # ï, 'n = 'n AEROTRI--ANGULATION POINT NUMBER 8/8/14 DATE DATE PH-6904 SOURCE OF INFORMATION (Index) Geodesy 27152 ON BOL Pad Byrd Ļ 1923 STATION NAME ۳, T-12144 GUAYANES 2, HAND PLOTTING BY COMPUTED BY LISTED BY MAP NO.

- President and Autority and Au

COMPILATION REPORT

T-12144

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:15,000 scale color photography. Photograph coverage was not adequate in that a large foul area between Punta Guayanes and Punta Icacos was not covered. Also glare in the southern portion of each photo may have prevented the accurate interpretation of some offshore features.

32. CONTROL:

See the attached Aerotriangulation Report, dated September, 1970.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details and the shoreline were delineated by office interpretation of the photographs.

36. OFFSHORE DETAILS:

Glare and the lack of photo coverage prevented the complete delineation of offshore features. See item 31.

37. LANDMARKS AND AIDS:

Preliminary forms 76-40 for Landmarks and/or Aids were prepared by the Compilation Office and forwarded to the Field Editor and/or the Hydrographer for verification, location, or deletion.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See Form 76-36B, Item #5 of the Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the USGS Quadrangle Punta Guayanes, Puerto Rico, scale 1:20,000, dated 1960.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with Chart 918, scale 1:10,000, 5th edition, dated December 31, 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

a. C. Rauck Jr. FOR Frank Margiotta

Cartographic Technician

7/10/74

Approved:

Mut e. Ranch y. Albert C. RAuck, Jr.

Chief, Coastal Mapping Section

October 11, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6904 (South Coast, Puerto Rico)

T-12144

Mar Caribe

Punta Guayanés

Punta Icacos

Approved by:

Charles E. Harrington Staff Geographer - C51x2

7-75) 1. PROJECTION AND GRIDS FPM CONTROL STATIONS 5. HORIZONTAL CONTROL STAT THIRD-ORDER OR HIGHER ACC	PHO		RIC OFFICE REVIEW - 12144	NOA: NATIONAL OCEAN SURVE
FPM	2 TITLE		- 12144	
FPM				
CONTROL STATIONS	EDM		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
	гги		FPM	FPM
THIRDSONDER OR HIGHER ACC	IONS OF	6. RECOVERAB	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
FPM	JURACY	. (Topographic	an THIRD-ORDER ACCURACY stations) FPM	NA
	PLOTTING O			11. DETAIL POINTS
O SENCH MARKS	FIXES XX	7501001	10. PHOTOGRAMMETRIC PLOT REPORT	
FPM	- AA.		FPM	FPM
ALONGSHORE AREAS (Nautical C	hart Data)	·		
12. SHORELINE 1	3. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
FPM	NA		FPM	NA
i	7. LANDWARK	<u> </u>	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE
			ł	19. OTHER ALONGSHORE CULTURAL FEATURES
FPM	NA		FPM	FPM
PHYSICAL FEATURES	· · · · · · · · · · · · · · · · · · ·			
20. WATER FEATURES		21. NATURAL G	ROUND COVER	22. PLANETABLE CONTOURS
FPM		. 1	JA	NA .
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL 25. SPOT ELEVATIONS		25. SPOT ELEVATIONS	26 OTHER PHYSICAL FEATURES
NA	NA		NA	FPM
CULTURAL FEATURES				
	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL
EDM.	EDM		l _{NA}	FEATURES FPM
FPM	FPM	· · · · · · · · · · · · · · · · · · ·	l NA	
BOUNDARIES 31. BOUNDARY LINES			32. PUBLIC LAND LINES	
NA			NA	
MISCELLANEOUS				
33. GEOGRAPHIC NAMES		34. JUNCTIONS	,	35. LEGIBILITY OF THE MANUSCRIPT
FPM		·	?PM	FPM
	7. DESCRIPTIV		38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
				EDM
FPM	FPM		NA	FPM
a. C. fauch	U. FOR		SUPERVISOR, REVIEW SECTION	on or unit
Frank Margio	1	//10/74	A. C. Rauck	
41. REMARKS (See attached sheet)		·	1	
FIELD COMPLETION ADDITIONS	AND CORRECT	IONS TO THE M.	ANUSCRIPT	
42. Additions and corrections for script is now complete exceptions	mished by the	er item 43.		
script is now complete exceptions of the complete exception of the com	ler 8/	6/76	Supervisor Collect C	anch . 1.
Reviewer: A. L.	Shands	9/10/76	A. C. Rauck.	Jr. /
3. REMARKS Q. P. &	hands	<u></u>		<u></u>

FIELD EDIT REPORT PROJECT PH-6904 SOUTH COAST, PUERTO RICO T-13362, T-13361, T-13360 T-13359, T-13358, T-12151 T-12161, T-12143, T-12144

This report is submitted for five 1:5,000 scale maps and four 1:10,000 scale maps. The Field Edit was accomplished during the spring season of 1976 by the NOAA SHIP MT MITCHELL MSS-22 personnel.

52 ADEQUACY OF COMPILATION

•The compilation is generally good. After the application of field edit data and data from engineering drawings of Arroyo and Yabucoa, the compilation will be adequate for charting.

53 MAP ACCURACY

Map compilation as to horizontal position is good. A modified field test was conducted on several points. Horizontal control was field identified, transferred to the manuscript, position scaled and compared to the computed coordinates and generally the agreement was less than one meter.

54 RECOMMENDATIONS

None

55 GEOGRAPHIC NAMES

No discrepancies were noted except those that were questioned on the field sheet. Names of persons interviewed about names in question are shown on T-13362, Photo 70E6421, 70E6218, T-13358, and T-12151.

56 SHORELINE AND ALONGSHORE FEATURES

The entire shoreline was checked by either walking, truck or small boat. All rock heights were estimated by going alongside or near in a small boat. On some near shore rocks, heights were estimated by walking the shoreline. Field Edit was conducted on days when sea conditions were moderate to calm. During launch hydro, the officer in charge, referenced many alongshore features, but in general the sea conditions were rough and the hydro launch did not get as near to the objects as the small boat used by the field editors.

All field edit data is indicated on the Field Edit Ozalid and photographs and are cross referenced.

There is a small marina under construction in Arroyo. Engineering drawings are furnished with this report. At Punta Figuras shoreline that is subject to frequent change was located by sextant angle and tape measurements; the field data and shoreline change is shown on manuscript T-13360.

On the eastern limit of T-12151, a small section of shoreline is in error and should be corrected as indicated on Photo 70E6440.

On T-12143, Yabucoa harbor area, construction is still underway. The main harbor is completed with construction underway on the southeast side. Engineering drawing of the harbor and new construction are enclosed with this report. Nautical Chart 25661 7th Edition May 24/75 already reflects the main harbor. Tie-points were located throughout the harbor to assist in tieing in with the engineering drawings. The shoreline immediately north of the riprap breakwater, as indicated on T-12143, is subject to daily change due to sand borrowing operations both landward and seaward of the mean high water line. The mouth of the stream is plugged on occasion with sand and debris, but continues to break through near the mouth as compiled. I recommend that the shoreline be charted as shown on photos and as compiled with note of frequent change.

57 LANDMARKS AND AIDS

Form 76-40 was submitted for all nautical landmarks and fixed aids to navigation in the descriptive reports for the hydrographic surveys. Copies of those forms are attached to this report.

58 GENERAL STATEMENT

All field edit notes have been made in violet ink on the field edit ozalids and ratio photographs.

It is recommended that photography of opportunity be obtained of the Yabucoa Harbor area and of the Palmas Del Mar harbor area, just north of Yabucoa. A special report was submitted on Palmas Del Mar to Director, Atlantic Marine Center with copy to CAM5.

Submitted 18 June 1976

Captain, NOAA Commanding Officer

NOAA Ship Mt Mitchell MSS-22

* NOAA FORM 76-40 (8-74) Replaces C&GS Form 567	NONFLOATING AIDS ORTING FOR CHARTS	NA.	FOR CHAR	U.S.	. DEPARTMI TMOSPHERI	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION MS FOR CHARTS	ORIGINATING ACTIVITY HYDROGRAPHIC PARTY GEODETIC PARTY	CTIVITY
and committee							X PHOTO FIELD PAR	TY
TO BE CHARTED TO BE REVISED TO BE DELETED	REPORTING UNIT (Field Party Ship or Office) (Coastal Mapping Div. A.M.C. Norfolk. Va.	Rico /	Locality Puerto Rico-South	ico-So	uth Coast	st Aug.1976	COMPILATION ACTIVITY FINAL REVIEWER QUALITY CONTROLS REVIEW GRP	NITY RREVIEW GR
The following objects	ects HAVE A HAVE NOT	award to de	termine their ve	alue as I	andmarks.		(See reverse for responsible personnel)	ible personnel)
OPR PROJECT NO.	JOB NUMBER	DATUM						
423	Ph-690h T-12144		Puerto Ri	Rico		METHOD AND DATE OF LOCATION	TE OF LOCATION	
			POSITION			(See instructions on reverse side)	on reverse side)	CHARTS
	DESCRIPTION	LATITUDE	Tube T	LONGITUDE	UDE			AFFECTED
CHARTING	(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in perentheses)	, ,	// D.M. Meters	1	// D.P. Meters	OFFICE	FIELD	
LIGHT	Puerto Yabucoa Channel Light 2	18 02	39.671 65	1,48	34.233		F-3-6-V March,1976	25661 25650
LIGHT	" " " Light 3	18 02	36.715	1.8	1308		E = E	2.5
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REVIEW REPORT

T-12144

SHORELINE

October 3, 1977

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

Map T-12144 is overlapped by 1:10,000 scale map T-12161 between lat. $18\,^{\circ}$ Ol'30" and $18\,^{\circ}$ O4'30"; long. $65\,^{\circ}$ 47'45" and $65\,^{\circ}$ 48'45". Details in the overlap area are delineated on T-12144 only.

More than 50 percent of each photograph used to delineate this map is obscured by glare. This caused the offshore and alongshore area details to be delineated monoscopically. Features twenty or more feet below the surface are visible in areas not obscured by glare. The relative elevation of features cannot be determined monoscopically, therefore, foul lines in some instances may have been placed around features twenty or more feet below the surface.

The compilation office dropped the position of a radio tower in the instrument model at lat. 18 03.8', long. 65 48.4'. It was recommended as a landmark to be charted on Form 76-40 submitted to Charts on September 27, 1976. This object was not previously charted and has not been recommended for charting by any field activity. Because there is no assurance of its landmark value, the object was changed to a map feature during final review.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with unverified smooth sheet H-9609, (MI-5-1-76). Inshore soundings do not exist east of long. 65 48 60".

A deep area encircled by a large foul area located northeast of Punta Guayanes was not developed by the hydrographer.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 25661, 1:10,000 scale, dated May 24, 1975, from Punta Icacos south. The area north of Punta Icacos, from lat. 18 04'15" to lat. 18 04'30" is covered by Chart 25650 at 1:100,000 scale.

The general shape of the shoreline compares well with that shown on Chart 25661. However, there is noticable difference in the placement. Also, several coral reefs awash charted between Punta Guayanes and Punta Icacos are not visible on the photographs.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the project instructions and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted by:

Q. I. Shands

A. L. Shands Final Reviewer

Approved for forwarding:

reph W VoreaseR

/Joséph W. Vonasek

Chief, Photogrammetric Branch, AMC

Chief, Photogrammetric Branch

Chief, Coastal Mapping Div.