# T-13362

ORIGINAL

#### NOAA FORM 76-35

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

## **DESCRIPTIVE REPORT**

Type of Survey Shore	line
Job No. PH-6904	Map No. T-13362
Classification No.	Edition No1
Field Edited	Мар
LOCALIT	
State Puerto Rico	
General Locality . South .Coas	it
LocalityPlayita Machete	
19 70 TO	19 76
REGISTRY IN A	RCHIVES
DATE	

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

NOAA FORM 76-36A (3-72) NATIO	U. S. DEPARTMENT OF COMMERCE NAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY T	¥. <u>13362</u>
		D ORIGINAL	MAPEDITIO	on no. ( 1
DESCRIPTIVE	REPORT - DATA RECORD	RESURVEY	MAP CLASS	Final
DESCRIPTIVE	REI ORI - DATA RECORD	REVISED		H6904
PHOTOGRAMMETRIC OFFICE	₹			
Coastal Mapping Di		LAST PRECEED		<del></del>
Norfolk, Va.		TYPE OF SURVEY  ORIGINAL		H
OFFICER-IN-CHARGE		RESURVEY	MAP CLASS SURVEY DA	
		REVISED	19TO 19	
Jeffrey G. Carlen	, Cdr	<u> </u>		
I. INSTRUCTIONS DATED	1 OFFICE	3	FIELD	
	1. OFFICE	2.	FIELD	
Compilation	October 16, 1970			
•		April 7, 1969		
		January 23, 1970		
	Ť	January 31, 1972		
	,	November 16, 197	Z	
II. DATUMS				-
I		OTHER (Specify)		
1. HORIZONTAL:	1927 NORTH AMERICAN	Puerto Rico		
	X MEAN HIGH-WATER	OTHER (Specify)		
2. VERTICAL:	(X) MEAN LOW-WATER  ☐ MEAN LOWER LOW-WATER			
	MEAN SEA LEVEL			
3. MAP PROJECTION		4. 0	GRID(S)	
Polyo	conic	STATE Puerto Rico	ZONE 1	
5. SCALE 1:5,00	00	STATE	ZONE	
III. HISTORY OF OFFICE OF	PERATIONS			
	OPERATIONS	NAME		DATE
1. AEROTRIANGULATION METHOD: Analytic	BY  LANDMARKS AND AIDS BY	R. Kelly	· · · · · · · · · · · · · · · · · · ·	Sept 1970
2. CONTROL AND BRIDGE				Oct 1970
METHOD: Coradoma		P. Dempsey	·	UCE_1970
3. STEREOSCOPIC INSTRUM	MENT PLANIMETRY BY	B. L. Barge		Feb 1971
COMPILATION	CHECKED BY	A. L. Shands		Feb 1971
INSTRUMENT: Wild B		NA		
scale: 1:7,500		NA D	<u></u>	
4. MANUSCRIPT DELINEAT		B. L. Barge R. Pate		Aug 1971
	CHECKED BY	NA Pate		<u>Mar 1972</u>
метноо: Smooth d	==-	NA NA		<del></del>
1:5,000	HYDRO SUPPORT DATA BY	B. Barge		Aug 1971
SCALE:	CHECKED BY	R. Patě		Mar 1972
5. OFFICE INSPECTION PR	IOR TO FIELD EDIT BY	R. Pate		Mar 1972
6. APPLICATION OF FIELD	EDIT DATA	C. Blood A. L. Shands		Sept 1976 Sept 1976
7 COMPLETION SECTION	CHECKED BY	A. L. Shands		Sept 1976
7. COMPILATION SECTION  8. FINAL REVIEW	REVIEW BY	A. L. Shands		Dec 1977
	PHOTOGRAMMETRIC BRANCH BY	A. L. Shands		Dec 1977
10. DATA EXAMINED IN PHO		U.B. Phillips		Jan 1978
11, MAP REGISTERED - COA	STAL SURVEY SECTION BY	P. T. Cotob		MAY 1970

NOAA FORM 76-36B				N.	TIONAL OCE	U. S	DEPARTMEN	T OF COMMERCE
(3272)		T-	13362	N/	TIONAL OCE	KNIC AND A		OCEAN SURVE
		COM	PILATIO.	N SOUP	RCES			
	BUV							
1. COMPILATION PHOTOGRA CAMERA(S)	APH T					· 1		···
Wild RC 8 "E"			TYPE	S OF PH	OTOGRAPHY ND		TIME REFE	RENCE
TIDE STAGE REFERENCE			(C) COL	<b>^</b> P		ZONE		
PREDICTED TIDES			(P) PAN		ATIC	Atlar	ntic	STANDAR
REFERENCE STATION RE			(I) INF			MERIDI 601	AN	DAYLIGHT
TIDE CONTROLLED PHOT	GRAPHY					501		
NUMBER AND TYPE		DATE	TIME	:	SCALE		STAGE OF	TIDE
70E(C) 6421 - 6423	3/	7/70	12:06	;	1:15,000	0.9	ft. above	e MLW
					-			
				i				
REMARKS				•				
\$\frac{1}{2}\tag{2}								
*								
2. SOURCE OF MEAN HIGH-	WATER LINE:							
The MHWL was	compiled	from the	above	liste	d photogr	aphs.		
	<b>F</b>				- F0-			
		**						
<u>.</u>								
3. SOURCE OF MEAN LOW-W	ATER OR ME	AN LOWER LO	W-WATER I	LINE:			<u> </u>	
None compile	1							
None compiled	1.							
								·
4. CONTEMPORARY HYDRO	GRAPHIC SUI	RVEYS (List of	nly those so	irveys th	et are sources i	for photogram	metric survey i	information.)
SURVEY NUMBER DATE	(S)	SURVEY COP	Y USED	SURVE	YNUMBER	DATE(S)	SURVE	EY COPY USED
5. FINAL JUNCTIONS						-		
NORTH	EAST	12261		SOUTH			WEST	262
No survey		-13361		l No	survey		T-13:	
REMARKS	-							
NOAA FORM 76-36B (3-72)	,							•

NÖAA FORM 76–360 (3–72)		Hí	T-13362 STORY OF FIELD	OPERATIONS	NIC AND A	MOSPHERIC AL NATIONAL (	
I.XX FIELD INSPI	CTION OPE	RATION	FIEL	D EDIT OPERATION			
	OF	PERATION			NAME		DATE
1. CHIEF OF FIEL	D PARTY			1 1751			Feb 1970
· · · · · · · · · · · · · · · · · · ·			RECOVERED BY	J. Wilson J. Wilson		-+	Feb 1970
2. HORIZONTAL C	ONTROL		ESTABLISHED BY				100 1770
		PRE-MARKE	OR IDENTIFIED BY	P.B.W.			Feb 1970
	<b>-</b>		RECOVERED BY				
3. VERTICAL CON	I ROL	505 MA 57 F	ESTABLISHED BY				
			OR IDENTIFIED BY	177			
4. LANDMARKS AN		· ·	ngulation Stations) BY D (Field Methods) BY				
AIDS TO NAVIG	ATION		IDENTIFIED BY				
			INVESTIGATION				-= .
5. GEOGRAPHIC N		COMP	BY				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			FIC NAMES ONLY VESTIGATION				
6. PHOTO INSPEC	TION		ION OF DETAILS BY	None		1	
7. BOUNDARIES A			OR IDENTIFIED BY	1,0,,0			
II. SOURCE DATA							
1. HORIZONTAL C	ONTROL ID	ENTIFIĘD		2. VERTICAL CO	TROL IDE	NTIFIED	
				<u>NNA</u>			
PHOTO NUMBER		STATION: N	AME	PHOTO NUMBER	s	TATION DESIGN	ATION
70E(C)6145	BARR	1965					
3. PHOTO NUMBE  None 4. LANDMARKS A		,	NTIFIED				
None							
PHOTO NUMBER		OBJECT N	AME	PHOTO NUMBER		OBJECT NAM	ИE
5. GEOGRAPHIC N	AMES:	REPORT	X NONE	6. BOUNDARY AN	D LIMITS:	REPORT	Х иои Е
7. SUPPLEMENTA	L MAPS AND	PLANS					
XT							
None	DECORDS :-		NO NOT 4	itted to the Geodesy D		·	

NOAA FORM 76+36C (3-72)

IDAA FORM 76-36C			II C DEBARTH	Bb ENT OF COMMER
3-72)		NATIONAL OCEANIG	AND ATMOSPHERI	
	HISTORY OF FIELD	OPERATIONS .	,	
I. TIELD INSPE	ECTION OPERATION XX FIEL	D EDIT OPERATION		
	OPERATION	NAM	E	DATE
I. CHIEF OF FIEL	D PARTY	M. V. Hull		Mar 1976
	RECOVERED BY			Mar 1976
. HORIZONTAL C				Mar 1970
A HORIZONTAL C	PRE-MARKED OR IDENTIFIED BY	None		+
	RECOVERED BY	None NA		
. VERTICAL CON				
, VERTICAL CON	PRE-MARKED OR IDENTIFIED BY	NA NA	·	<del> </del>
· · · · · · · · · · · · · · · · · · ·		NA		
LANDMARKS AN	RECOVERED (Triengulation Stations) BY	W. V. Hull		Mar 1976
AIDS TO NAVIG	ATION	w. v. null		Mar 1970
	TYPE OF INVESTIGATION			<del> </del>
. GEOGRAPHIC N				
INVESTIGATION				
	₩ NO INVESTIGATION			
, PHOTO INSPEC	TION CLARIFICATION OF DETAILS BY	W. V. Hull		Mar 1976
. BOUNDARIES A		NA NA		Har 1770
I. SOURCE DATA		. +1==		,
I. HORIZONTAL C	ONTROL IDENTIFIED	2. VERTICAL CONTR	OL IDENTIFIED	
	None	NA NA		
PHOTO NUMBER	ST A TION, NAME	PHOTO NUMBER	STATION DE	SIGNATION
		1		
		!		
3. PHOTO NUMBE	RS (Clarification of details)			
	70E(C) 6421 & 6422			
4. LANDMARKS AI	ND AIDS TO NAVIGATION IDENTIFIED			
	None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
70E(C)6422	STACK			
706(0/0422	SINCK			

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

X NONE

REPORT

1-Field Edit Ozalid

2-Forms 76-40

5. GEOGRAPHIC NAMES:

REPORT

X NONE

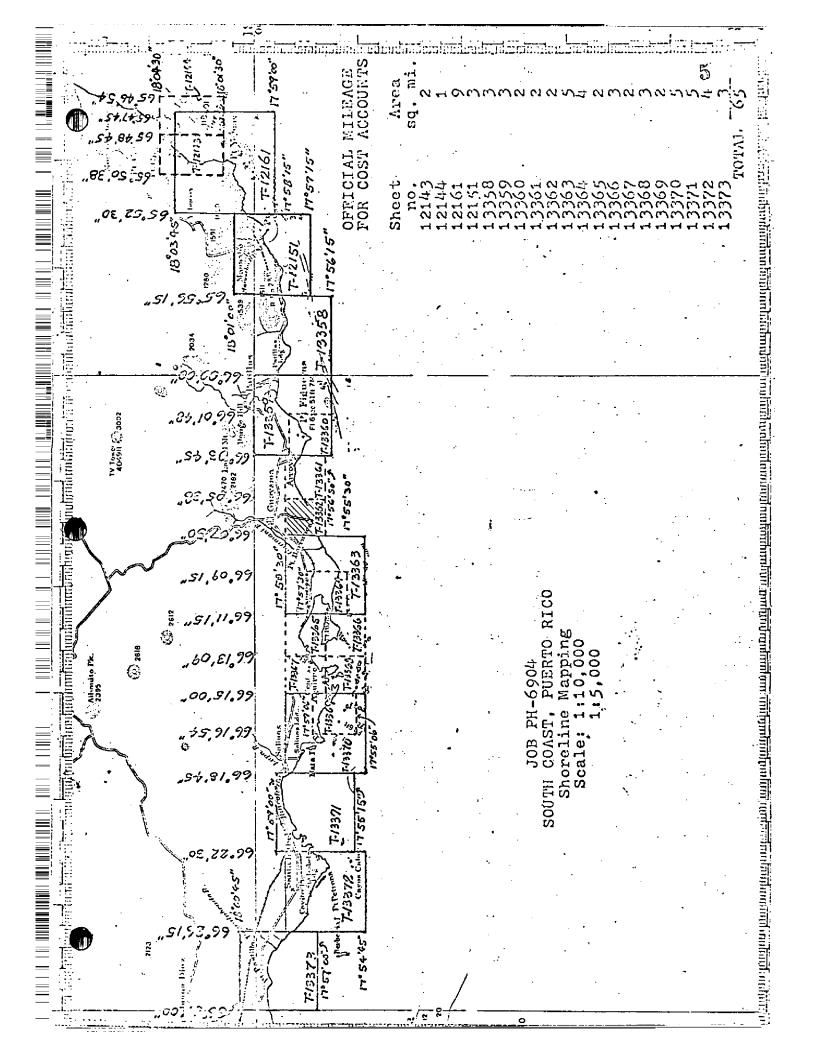
6. BOUNDARY AND LIMITS:

NOAA FORM 76-36D (3-72)

U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION T-13362

ļ		KECO	KD OF SURVE	I N?E	•		
I. MANUSC	RIPT COPIES						
	Co	MPILATION STAGE	s		DATEM	ANUSCRIPT F	ORWARDED
	DATA COMPILED	DATE	RE	MARKS	MARINE		RO SUPPORT
Compila	tion complete,				1	0ct	1972
pending	field edit.	Aug 1970 .	Class III	manuscrip	t ,	Jar	n 1975
Field e	dit applied.						
	tion complete.	Sept 1976	Class I ma	nuscrint	Sept	1976	•
			71400 1 140		- Joepe		
Final R	eview	Dec 1977	Final		Dec 1	977	
<u> </u>							<del></del>
ļ			ļ				
	LANDMARKS AND AIDS TO NAVIGATION  1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH  CHART LETTER NUMBER ASSIGNED PORWARDED REMARKS  1 9/28/76 Landmark for Charts  1 9/28/76 Landmark for deletion  2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: Sept. 28, 1976  3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:						
1. REP	ORTS TO MARINE CHART D	IVISION, NAUTICAL	DATA BRANCH	·	<del></del> _		
NUMBER					REMARKS		
1	•	9/28/76	Landmark	for Chart	s		
1		9/28/76	Landmark	for delet	ion		
						-	
	· · · · · · · · · · · · · · · · · · ·						
}							
_				···			
1	REPORT TO MARINE CHAR	T DIVISION COAST	OU OT BRANCH	DATE FORWA	enen Sent	28 197	16
III. FEDE	RAL RECORDS CENTER DA	TA					
<u> </u>							
1. X	BRIDGING PHOTOGRAPHS	XX DUPLICATE	BRIDGING REPO	iRT; [X]_GOV	PUTER READOL	JTS.	
	CONTROL STATION IDENT						
) " <del>X</del>	SOURCE DATA (except for ( ACCOUNT FOR EXCEPTIO	reographic Names R NS:	eport) AS LISTED	IN SECTION II,	NOAA FORM 76-3	160.	
	,						
4 [	DATA TO FEDERAL RECO	RDS CENTER. DAT	TE FORWARDED:				
IV. SURV	EY EDITIONS (This section			p edition is regi			
	SURVEY NUMBER	JOB NUMBE			TYPE OF	SURVEY RESURV	
SECOND		(2) PH-		<b>,</b>	MAPC	_	/ <b>⊭</b> Y
EDITION	DATE OF PROTOGRAP	TATE OF F	TELD EDIT	□.u. (	□ □.iv.		FINAL
	SURVEY NUMBER	ЈОВ ИИМВЕ	ER .		TYPE OF		
THIRD	тр	_ (3) PH			REVISED	RESURV	/EY
EDITION	DATE OF PHOTOGRAP	HY DATE OF F	TELD EDIT	]	MAPC		
				<u>□</u> u.	□m. □w.		FINAL
	SURVEY NUMBER	JOB NUMBE	ER		TYPE OF	SURVEY	ر مشر
FOURTH	DATE OF PHOTOGRAP	(4) PH	IFLD EDIT	1	L REVISED	LASS '	E- Y
EDITION	I I			l ⊓	MAPC Πω. Πίν.		7=1841

NOAA FORM 76-36D



#### 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-13362

There was no field inspection prior to office compilation.

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

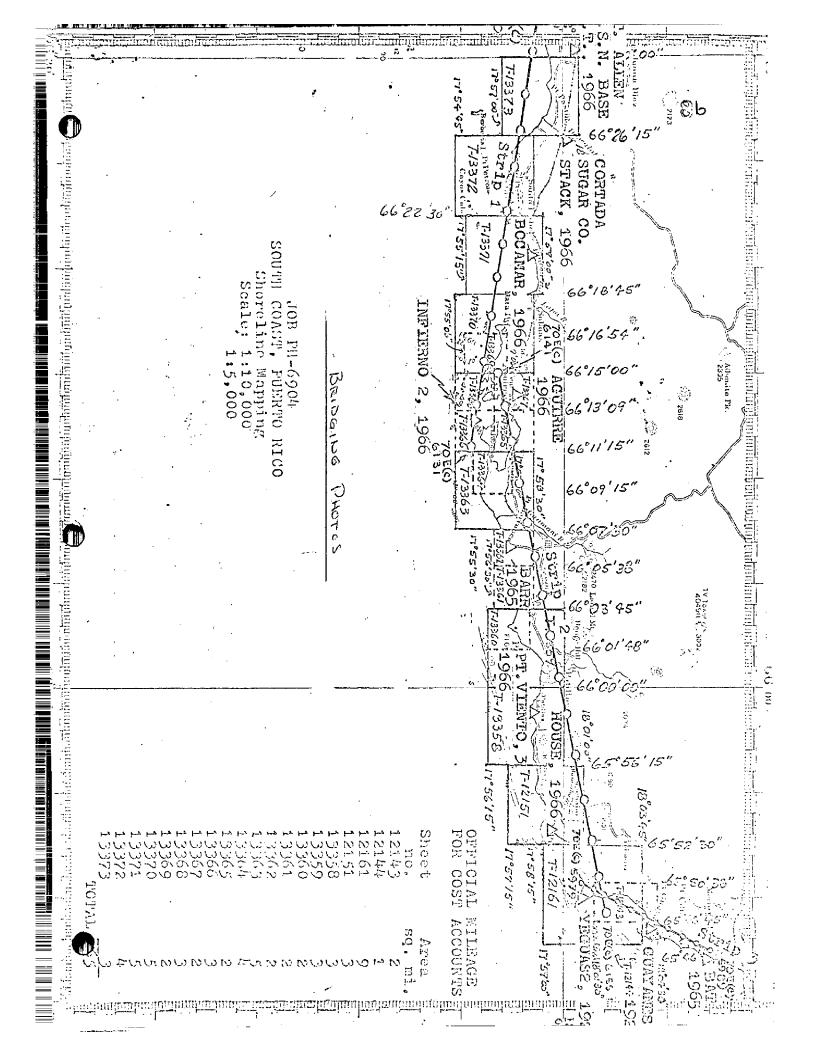
Robert B. Kelly

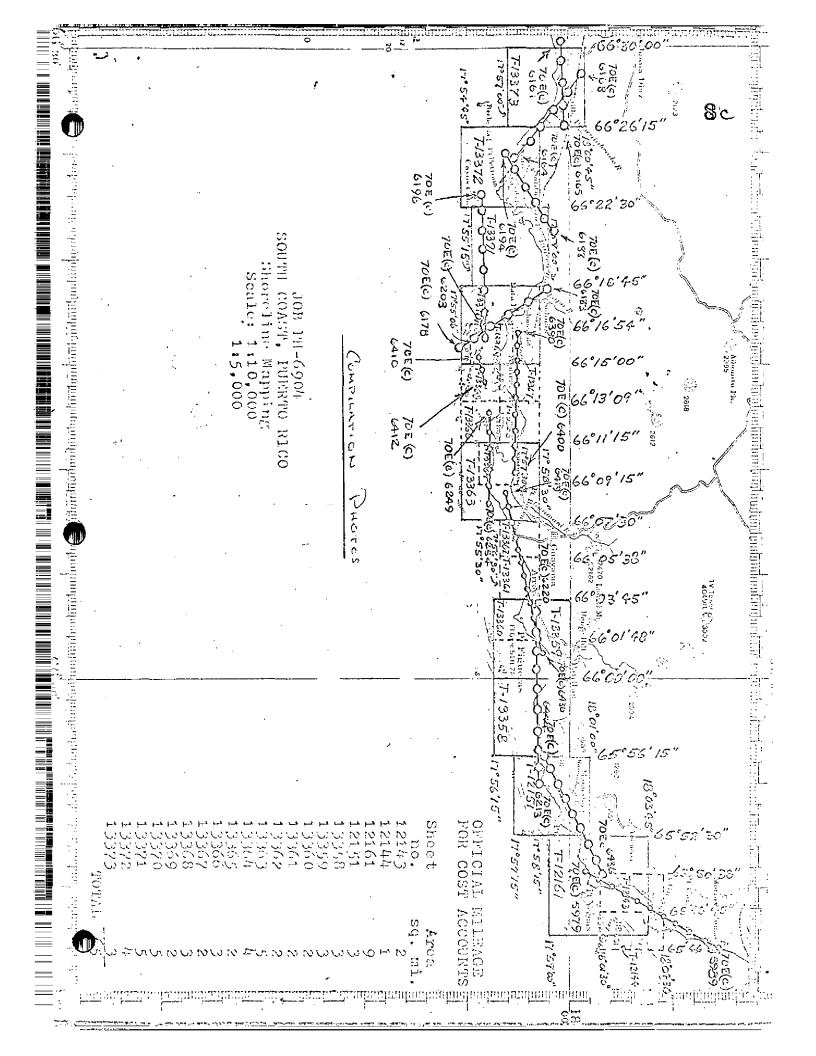
Approved and forwarded,

Henry P. Elchert

Chief, Aerotriangulation

Section





## (HIGEN)

D CONTRUL USED IN ADJUSTMENT

( ) CLOSURES OF BRIDGE TO CONTROL SHOWN

IN PARENTHESIS

CONTROL USED AS CHECK.

## Stripl.

I HELERNO 2, 1966 (-0.6,+0.3) (-1.3,+0.6) AGUIRRE, 1966  $\Delta$ BARR, 1965 (-0.6,-1.0) Pr VIENTO 3, 1966 (-1.2, -0.8)House 1966 Sus Sta. A (+1.1, +0.4) YEGUAS Z, 1965 (+11, -06) YEGUAS 2, 1905 SUB STA. A (+0.5, -02) Δ

## St210 3

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

NOAA FORM 76-41					U.S. DEPARTMENT OF COMMERCE	DEPARTMENT	OF COMMERCE
(6-75)		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		EANIC AND ATN	MOSPHERIC AI	OMINISTRATION
MAP NO.	JOB NO.		GEODETIC DATUM		ORIGINATING ACTIVITY COASCAL Mapping	<b>r</b> YCoastaI	Mapping
T-13362	PH-6904		Puerto Rico	Nor	Norfolk, Va.	ı	:
TAN SCHAPE	SOURCE OF		COORDINATES IN FEET STATE Puerto Rico	GEOGRAPHIC POSITION	ON DE	REM	REMARKS
	(Index)	POINT	ZONE		UDE	Forward	Back
	Geodesy		-χ	φ 17 57 04.	04.08199	125.5	(1719.0)
BARR, 1965	pad 27178		η=	λ 66 06 46.	46.06994	1355.6	( 409.8)
	New P.R.		x= 611,164.41	ф		1164.4	(835.6)
MACHETE B 1926	pagum Aggt4	•	y= 45,098.18	γ		1098.2	( 901.8)
			χ=	Φ.			
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			-χ	φ			
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			χ=	Φ			-
			<i>y</i> =	γ			
			= <b>X</b>	•			
			=h	7			
-		DATE 8/19/71	COMPUTATION CHECKED BY	C. Rauck, Jr.		DATE 8/19/71	/71
LISTED 8Y			LISTING CHECKED BY	,		DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY			DATE	
		SUPERSEDES NO	SEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.			79

## COMPILATION REPORT

T-13362

## 31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter.

Photography was adequate.

## 32. CONTROL:

See the attached Aerotriangulation Plot Report, dated Sept. 1970.

## 33. SUPPLEMENTAL DATA:

None.

## 34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter.

### 35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline and alongshore details were delineated by the Wild B-8 stereoplotter from office interpretation of the photographs.

## 36. OFFSHORE DETAILS:

Delineation of offshore details was difficult and may be incomplete due to glare on photographs.

## 37. <u>LANDMARKS AND AIDS</u>:

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

## 38. CONTROL FOR FUTURE SURVEYS:

None.

## 39. JUNCTIONS:

See the attached 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 was made with USGS Quadrangle Guayama, Puerto Rico, scale 1:20,000, dated 1960.

### 47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following Chart 925, scale 1:20,000, 3rd edition, dated June 30, 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

1. C. Kauck, J. Barge

B. Barge Cartographic Tech. October 18, 1971

Approved:

Albert C. Rauck, Jr. Chief, Coastal Mapping Section

October 11, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6904 (South Coast, Puerto Rico)

T-13362

Mar Caribe

Playita Machete

Puerto Arroyo

Punta Barrancas

Approved by:

Charles E. Harrington
Staff Geographer - C51x2

OAA FORM 75-74 '-75)				U.S. DEPARTMENT OF COMMERC
-,3,	РНОТО	RAMMET	RIC OFFICE REVIEW	NATIONAL OCEAN SURVE
		TP	-13362	12
. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
RJP	RJP		RJP	RJP
CONTROL STATIONS	<u> </u>			
HORIZONTAL CONTROL STA	ATIONS OF 6. P	RECOVERAS OF LESS TH	LE HORIZONTAL STATIONS	7. PHOTO HYDRO STATIONS
RJP		Topogr <del>ap</del> hic	RJP	
, BENCH MARKS	9. PLOTTING OF SE	THATK	10. PHOTOGRAMMETRIC PLOT REPORT	NA
NA	RJ∙P		RJP	RJP
LONGSHORE AREAS (Nautical	Chart Date)			
2. SHORELINE	13. LOW-WATER LIN	E	14 ROCKS, SHOALS, ETC.	15, SRIOGES
RJP	RJP		RJP	RJP
6. AIDS TO NAVIGATION	17. LANDMARKS		18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
RJP	RJP		RJP	RJP
HYSICAL FEATURES				
O. WATER FEATURES	21.	NATURAL (	SHOUND COVER	22. PLANETABLE CONTOU
RJP		N	A	NA
3. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN	SENERAL	25. SPOT ELEVATIONS	26 OTHER PHYSICAL FEATURES
NA .	NA.	-	NA	RJP
ULTURAL FEATURES				
7. ROADS	28. BUILDINGS		29. RAILROADS	-30. OTHER CULTURAL FEATURES
RJP	RJP		RJP	- RJP
OUNDARIES I. BOUNDARY LINES			32. PUBLIC LAND LINES	
NA			NA NA	
ISCELLANEOUS 3. GEOGRAPHIC NAMES	134	JUNCTION:		35. LEGIBBLITY OF THE
•	34	JUNG FION:	<b>,</b>	MANUSCRIPT
RJP .		RJ	P	RJP
6. DISCREPANCY OVERLAY	37. DESCRIPTIVE F	EPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
RJP	RJP		NA	RJP
R. J. Pate	h. J. FOR 3/20/7	2	A. C. Rauc	ction or unit
1. REMARKS (See attached shee				
TELD COMPLETION ADDITION				
script is now complete exc	s tumished by the fic cept as noted under i	tem 43.	ion survey have been appli	ied to the manuscript. The manu
OMPILER O DI 1	3 Blood 9/10	/76 . /76	ISUPERVISOR C. Rai	ck, Jr.

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

Wesley . Hull Captain, NOAA

Commanding Officer

NOAA Ship Mt Mitchell MSS-22

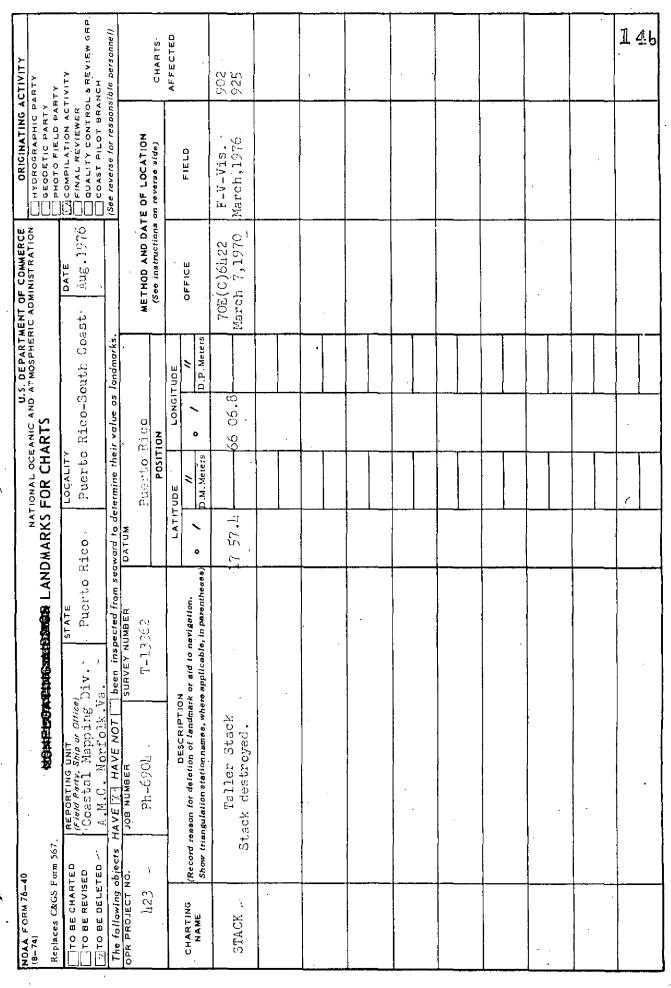
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To Charles 9127/74







T-13362

SHORELINE

December 1, 1977

## 61. GENERAL STATEMENT:

See Summary, Page 6 of this Descriptive Report.

- 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 a copy of Final Verified Smoothsheet H-9597 (MI-10-2-76). Due to glare and indistinct imagery the coral reef awash shown on the smoothsheet is probably a better portrayal of those features than can be had from the photography. Therefore no attempt was made to delineate these features on the map.

The areas adjacent to the shoreline labeled "breakers" on the smoothsheet are apparently foul with rocks or obstructions. Glare prevents the accurate delineation of the foul area. Three obvious rocks however, were identified and located on the map during final reviews

## 65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 25689, 1:20,000 scale, 5th edition dated May 7, 1977. The coral ledge awash charted from Punta Barrancas westward are not delineated on this map for the reasons mentioned in paragraph 64 above.

## 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

4. L. Shands

A. L. Shands Final Reviewer

Approved for forwarding:

Joseph W. Vonasek

Approved

<u>==</u>

/Joseph w. vonasek Chief, Photogrammetric Branch, AMC

M. M. MONDON

Chief, Photogrammetric Branch

Chief, Coastal Mapping Div.