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U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

### DESCRIPTIVE REPORT

	#
Type of Survey SHORELINE (Photograms	drie,
Field No. T-12152	
LOCALITY	
State PUERTO RICO	
General locality EAST COAST	,
Locality PUNTA BARRANCAS TO	
ISLA PINEROS	
1958 1962-62	·
CHIEF OF PARTY	ļ
M. L. Olivier, Chief of Party 708 V. R. Sobieralski, Tampa District Officer	
LIBRARY & ARCHIVES	
1 JUL 1968	

USCOMM-DC 5087

### DESCRIPTIVE REPORT - DATA RECORD

T-12152

Project No. (II): PH-6106

Quadrangle Name (IV):

Field Office (II): Puerto Rico

Chief of Party: M. L. Olivier

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge: V. R. Sobieralski

Instructions dated (II) (III): Field and Office - Aug. 30, 1961

Copy filed in Division of Photogrammetry (IV)

Amendment

Jan. 15, 1962 x

\* Interior planimetry restricted to those features oseful to photo hydro support. 100

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6.000

Scale Factor (III): Pantographed to 1:10,000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

APRIL 11, 1968

Applied to Chart No.

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): Puerto Rico

Vertical Datum (III): MHW Means extend except as follows:

Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III):

MEDIO, 1941

Lat.: 18°15'45.354"(1394.4m) Long.: 65°36'23.395"(687.2 m)

**Adjusted** <del>Unadjusted</del>

Plane Coordinates (IV):

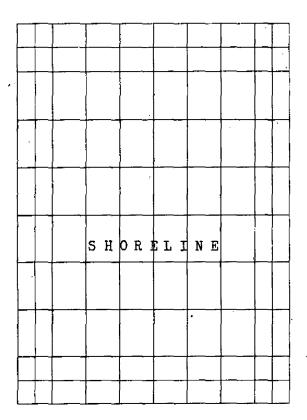
State: Puerto Rico Zone: Puerto Rico

156,516.74 FT.

x= 786,862.44 FT.

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.



Areas contoured by various personnel (Show name within area)
(II) (III)

Inapplicable

### DESCRIPTIVE REPORT - DATA RECORD

No field inspection report avail-

Field Inspection by (II): M. L. Olivier

5 Dec. 1941 (See Report)

Date: able, nor were dates shown on field photos, CSI

560

Planetable contouring by (II): Inapplicable

cards shows date

Date: as Dec. 1961

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): Air photo compilation Date of photography: April 1959, Oct. 1961

Projection and Grids ruled by (IV): A.R. (Washington Office)

Date: April 1962

Projection and Grids checked by (IV): A.R.

Date: April 1962

Control plotted by (III): I. I. Saperstein

Date: April 1962

Control checked by (III): I. I. Saperstein

Date: April 1962

RACIAL PROPER Stereoscopic

Control extension by (III): R. E. Fueshsel (W.O.)

Date: March 1962

Planimetry I. I. Saperstein

Date: April 1962

Stereoscopic Instrument compilation (III):

COOKOUKS

Date:

Manuscript delineated by (III): I. I. Saperstein

Date: April 1962

Photogrammetric Office Review by (III): W. H. Shearouse

Date: May 1962

Elevations on Manuscript

checked by (II) (III):

Date:

See page 18 for note partaining to

### DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): Wild "W" and "S"

	PH	IOTOGRAPHS (III)		
Number	Date	Time	Scale	Stage of Tide
61W-1681	Oct. 26, 1961	15:03	1:30,000(Diaposi	- + 0.9
598-3943	Apr. 18, 1959	11:57	" tives)	0.1
598-3944	11 11 11	1f	11	0.1
598-3945	11 11 11	11:58	11	0.1
598-3946	11 11 11	"	11	0.1
58-S-2576 thru 2578	1958	12:15	1:10,000(Color	0.1
58-5-2744 " 2746		10:42	" Photos	1
58-S-2800 " 2802	11	11:10	11	,
58-S-2808 " 2809	11	11:12	11	
58-S-305li # 3063	11	11:47	11	
62-5-146-148,210.	m 212 Feb. 13	5,1962	11	
62-5-478- 484,51	4-516 "1 17	7	"	

### PredictedTide (III)

Reference Station: San Juan, P. R. Subordinate Station: Bahia de Fajardo

Subordinate Station:

Atlantic Marine Center Washington Office Review by (NY): Washington Office Review by (NY):

Scribed Final Drafting by (14): B. Barge

Date: Nov. 1967

Ratio of Mean Spring Ranges Range Range

1.0

Date:

Date:

Diurnal

Date: July 1966

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): Shoreline only Shoreline (Mare than 200 meters to opposite share) (III): 13.5

Shoretine (been them: 200xmaters to opposite share) (Ht):

Control Leveling - Miles (II): Inapplicable

Number of Triangulation Stations searched for (II): 16#

Number of BMs searched for (II): None

Number of Recoverable Photo Stations established (III): 0

Number of Temporary Photo Hydro Stations established (III): 2\*\*\*

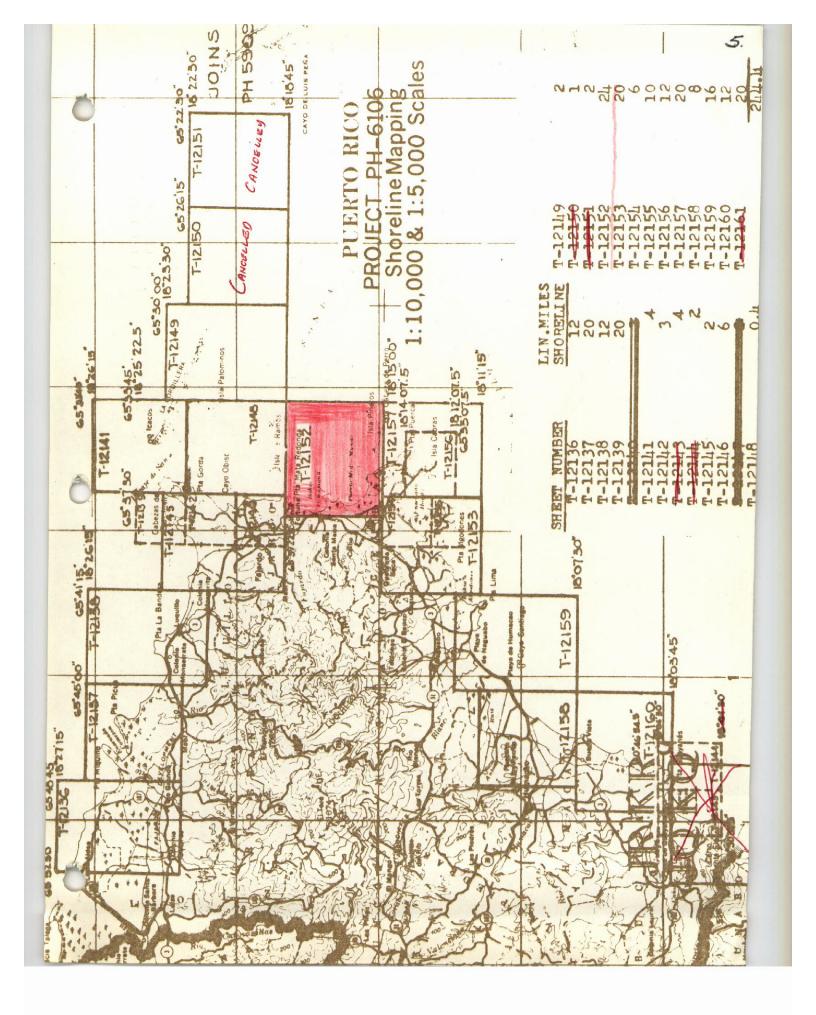
Recovered: 9#

Identified: 2 Identified: ()

Recovered: 0

Remarks: \* Including 1 station west of T-12152

1 " North " " (No. 110)



### SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-12152

Shoreline manuscript T-12152 is one of sixteen 1:10,000 scale surveys in PH-6106 Puerto Rico, which also contains eight 1:5,000 scale surveys. The sketch on page 5 of this report shows the position of this manuscript in the project. It is noted that 1:5,000 scale maps T-12143 and T-12146, and 1:10,000 scale maps T-12150, T-12151, and T-12161 of this project are in a postponed status until some future date. cancalled.

This is a stereo-instrument project in advance of hydrographic surveys of the area. Field inspection was done on 1:10,000 ratio prints from 1:30,000 panchromatic photographs made with the "S" camera April 18, 1959, and with the "W" camera on Oct. 26, 1961. The same photography was used for compilation. Color prints at 1:10,000 taken with the "S" camera during 1958 were furnished for reference. 1:10,000 color photographs taken with the "S" camera on February 15, and 17, 1962 were available for map completion and final review. The stereo-bridge was run and adjusted to field identified control in the Washington Office. Compilation was done with the Kelsh Plotter. Ratio prints, at 1:10,000 scale were processed and provided for photoghydro support.

Field work preceding compilation consisted of control identification and field inspection was provided for compilation. A limited field edit was done concurrently with hydrography, but it was so skimpy it has been classified as "NONE", please see FIELD EDIT REPORT on page 17.

The compilation manuscript was a vinylite sheet, 3 minutes 45 seconds in latitude, and 4 minutes, 45 seconds in longitude. The smooth manuscript was on cronaflex for registry and record after final review.

### FIELD INSPECTION REPORT-4.

### 2. ARE'L FIELD INSPECTION

T-12139, T-12145, T-12146, and T-12152 through T-12157,
These shoreline sheets, are located on the eastern coast of Puerto Rico.
The area is undeveloped except for the village of Fajardo and the Roosevelt Roads Naval Resveryation.

Field inspection was performed on photographs 59-S-3940 through 59-S-3949 and 59-S-3915 through 59-S-3923. Some difficulty of interpretation of the apparent MHWL was encountered around mangrove areas.

Three housing areas within the naval station were not field inspected. It is believed that the 1961 photographs will cover these spots. Also a small marina in Ensenada Honda was left for the 1961 photographs. A new marina, under construction, on the south side of Cayo Obispo (a small island just east of Playa de Fajardo) was left for field edit.

### 3. HORIZONTAL CONTROL

All Coast and Geodetic Survey control stations except four within the project limits were searched for. HOUSE, 1901; KID, 1941; MONTE, 1941; and NORTH, 1941 were not searched for because no descriptions were furnished. Only those stations as specified on the project diagram were photo-identified. One U. S. Geological Survey control station (CENTRAL FAJARDO, NORTH STACK, 1941) was recovered and photo-identified.

There were many triangulation stations that could not be recovered especially around the naval base. It is believed that much of this control was destroyed during construction of the base.

### 4. VERTICAL CONTROL

All tidal bench marks in the area were searched for. The one at Playa de Fajardo was recovered but the two in Ensenada Honda could not be found.

### 5. COMMOURS AND DRAINAGE

Contours were not a part of the work requirements for this project.

The drainage patterns can be distinguished on the photographs.

### 6. WOODLAND COVER

Woodland cover has been classified in accordance with the requirements I for topographic maps. Wooded areas are adequately covered by the field taspection photographs.

Swimp areas were designated as mangrove. There is considerable man-

### 7. SHOPLITHE AND ALONGSHORE FEATURES

The mean high water line was inspected from a small boat and by walking along the shoreline.

The shoreline in places was visited at low water. The mean low water line is shown onethe photographs in green ink.

The foreshore is steep in some places and somewhat flat in other places.

Docks, piers, wharves, etc. are adequately covered on the field inspection photographs.

One submerged cable was identified on the photographs.

### 8. OFFSHORE FEATURES

Some offshore rocks were visited and their heights above MHW were noted. Coral is distinguishable on the photographs.

### 9. LANDMARKS AND AIDS

Landmarks and aids to navigation located by photogrammetric methods are shown on the contact prints. One landmark, a tower on Pineros Island, was identified on the field inspection photographs.

All landmarks and aids to be charted or deleted are adequately covered on Form 567.

### 10. BOULTARIES, MONUMENTS, AND LINES

Boundaries were excluded by the project instructions.

### 11. OTHER CONTROL

existing objects suitable for photo hydro control were identified on the field inspection photographs. These are shown on the photographs by three digit numbers. Many of the landmarks and aids can be used for photo hydro control.

### 12. CTHER INTERIOR FEATURES

All buildings and roads have been classified in accordance with project instructions dated 30 August 1961.

### 13. CEOCRAPHIC NAMES

An investigation of geographic names was not required by the project insuructions. It was noticed that the geographic names on the existing charts and quads of this area agree with one another and with the general opinion of the local people.

### 14. SPECIAL PEPORTS AND SUPPLEMENTAL DATA

Contact photographs were forwarded to the Washington office by Letter of Transmittal No. PH-6106-3 dated 20 November 1961.

Submitted
5 December 1961
Which & Chicago
Michael L. Olivier

OLILE Dhata Ponty 70\$

1

### PHOTOGRAMMETRIC PLOT REPORT PUERTO RICO, EAST COAST PROJECT PH-6106 March, 1962

### 21. Area Covered:

T-12146;

T-12136 through T-12139; T-12141 through T-12148; T-12152 through T-12161.

### 22. Method:

Five stereoplanigraph bridges were run in order to provide pass points for Kelsh compilation of the project.

Strip # was adjusted on a linear basis. All other strips were adjusted on a least-squares basis on the IBM 650 computer. Satisfactory adjustments were obtained for all strips in the project.

### 23. Adequacy of Control:

The horizontal control provided complied with project instructions, and was adequate. The following control failed to hold in bridging:

 $\Delta$  PINERITA 2, 1941-SUB.PT. 2. This station had been designated as a poor image pt. at the time of bridging, and may safely be disregarded due to the proximity of other control that held in bridging.

### 24. Supplemental Data:

None

### 25. Photography:

The photography was adequate for the needs of aerotriangulation.

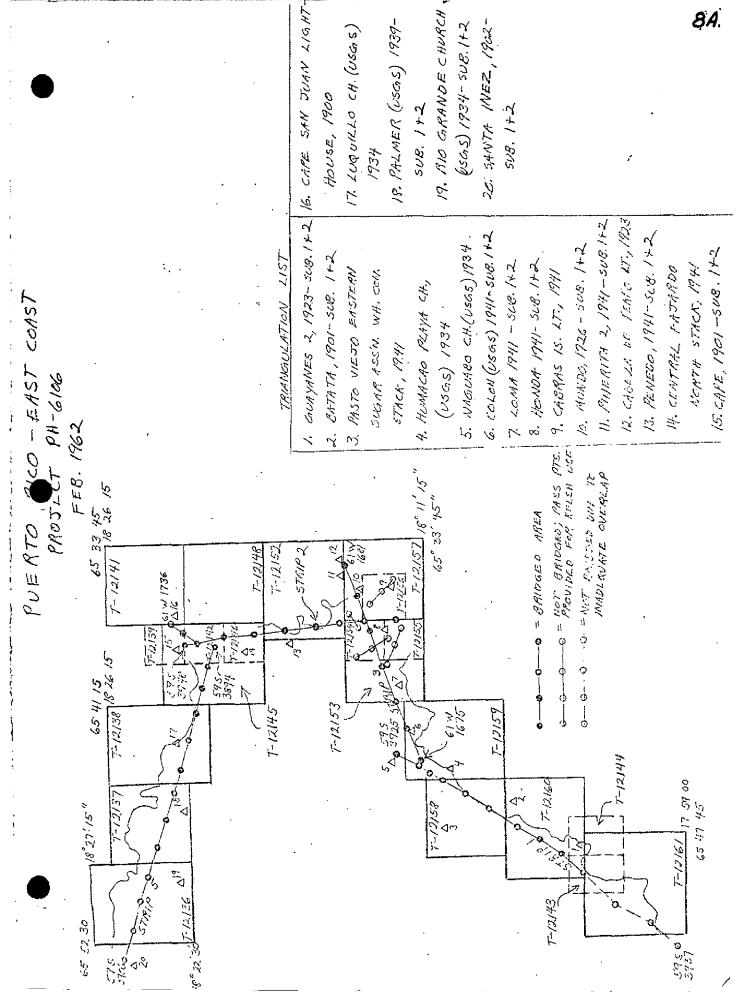
Submitted by:

R. E. Fuechsel

Ápproved:

E. H. Ramey, Chief

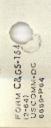
Aerotriangulation Section





## DESCRIPTIVE REPORT CONTROL RECORD

Penedo   Latitude of Vaccomonate	MAP T- 12152 PROJECT NO.	T NO. PH-6106	SCA	SCALE OF MAP 1:10,000 SCAL	SCALE FACTOR
1941	STATION	SOURCE OF INFORMATION (INDEX)	ратим	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR FROJECTION LI IN METERS (1 Ft. = 3048006 meter) FORWARD (BAC)
EZA de PERRO LT.  Rico  152 584.03  Puerto  154 584.03  Puerto  154 025.52  Puerto  164 025.52  Puerto  178 209.49  Puerto  178 862.44  Puerto  178 873.55  Puerto  179 194.80  Puerto  170 194.80  Puerto  170 196.31  Puerto  171 184.27  Puerto  172 203.13  Puerto  174 184.27  Puerto  174 184.27  Puerto  174 184.27  Puerto  175 816.31  Puerto  176 287.28  Puerto  177 287.28  Puerto  178 1941  Puerto  178 184.27  Puerto  178 184.30  Puerto  178			Puerto		
1941   Puerto   152 584.03   Puerto   154 025.52   Puerto   154 025.52   Puerto   154 025.52   Puerto   154 025.52   Puerto   156 516.74   Puerto   163 573.55   Puerto   163 573.55   Puerto   163 573.55   Puerto   164 180   Puerto   167 184 180   Puerto   174 184 181   Puerto   175 184 180   Puerto   176 184 180   Puerto   178 184 184   Puerto   178 184 184   Puerto   178 184 184   Puerto   181 184 187   Puerto   181 185 183   Puerto   181 185 183   Puerto   181 185 181   Puerto   181 185 184   Puerto   181 185 185   Puerto			Rico	THE PARTY OF	
Same And	de PERRO		Pherto		
1, 1941  10, 1941  10, 1941  11, 1941  11, 1941  12, 1941  13, 1941  14, 1941  15, 1941  16, 1941  17, 1942  18, 1941  18, 1941  18, 1941  18, 1941  18, 1941  18, 1941  18, 1941  18, 1941  18, 1941  18, 1941  18, 1941  18, 1941  18, 1941  18, 1941  19, 194			Rico		
10, 1941  10, 19			Dionto		
1941			Rico		
1941	MEDTO, 1941		Priento		
IA, 1941     Puerto     163 573.55       ID, 1941     Rico     778 254.76       ID, 1941     Puerto     157 844.76       IA, 1941     Rico     776 796.02       IA, SAN ANTONIO CATH     Puerto     785 794.14       SA, SAN ANTONIO CATH     Puerto     157 916.31       BLUFR, 1900     Puerto     174 184.27       BLUFR, 1900     Puerto     780 050.82       PHOETO     780 050.82       RA, 1941     Puerto     775 287.28       RA, 1941     Puerto     151 856.69       RA, 1941     Puerto     175 287.28       RA, 1941     Rico     793 983.39       RA, 1942     Rico     151 859erstein			Rico		
A, SAN ANTONIO CATH.  BLUTR, 1900  RANARIA STACK,  RANARIA STA			Dionto		
1941			Rico		
A			Priento		
## 1941    Puerto   155   144.80   146.80   156.81   146.80   156.81   146.			Rico	1	
## SAN ANTONIO CATH.   Rico   785 794.14   Rico   772 203.13   April   Rico   775 287.28   Rico			Dirento		
Ab, SAN ANTONIO CATH.  BLUFF, 1900.  BLUFF, 1900.  BLUFF, 2, 1922  A MARIA STACK,  RA, 1941  Puerto	1		Rico		
BLUER, 1900.   Rico   772 203.13   Rico   780 050.82   Rico   775 287.28   Rico   775 287.28   Rico   793 983.39   Rico   R			Priento	916.31	K traits
BLUFF 2, 1922  BLUFF 2, 1922  Rateo		•	Rico	203.13	
### Puerto   161 856.69   Puerto   161 856.69   Rico   775 287.28   Rico   775 287.28   Puerto   155 101.57   Puerto   793 983.39   Rico   793 983.39   Rico   793 983.39   I. I. Saperstein   I. I. I. Saperstein   I. I. I. Saperstein   I. I. Saperstein   I. I. I. Saperstein   I.	1900.		Puerto Rico	~	
Puerto 161 856.69 Rico 775 287.28  RA, 1941 Puerto 155 101.57 Rico 793 983.39 Cackowski 4/3/62 I. I. Saperstein	RED BLUFF 2, 1922		Puerto Rico		
Puerto 155 101.57 Rico 793 983.39 Cackowski 4/3/62 I. Saperstein	A MARIA		Puerto	161 856.69	9
Puerto 155 101.57  Rico 793 983.39  Cackowski 4/3/62 I. I. Saperstein	1-			7.75 287.28	,
Cackowski 4/3/62 I. Saperstein				155 101.57 793 983.39	
		4/3/			DATE 4/12/62



## DESCRIPTIVE REPORT CONTROL RECORD

CTOR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LIN IN METERS (1 Ft. = 3048006 meter) FORWARD (1000)	LIMETS			MITS.					10	94	4/12/62
SCALE OF MAP 1:10,000 SCALE FACTOR	LATITUDE OR Y COORDINATE  LONGITUDE OR X COORDINATE  FO	151 803.29 oursine Lin										снескър ву I. I. Saperstein
PH-6106	SOURCE OF INFORMATION DATUM	Puerto R1co	Puerto	Puerto	Puerto	Puerto	Puerto					рате 4/3/62
MAP T- 12152 PROJECT NO.	STATION	NORTH CABRAS ISLAND 1900-1941	FIGUERITA, 1941	STUMP, 1941	PINERITA 2, 1941	PINEROS 2, 1941	FIG, 1901					computed by V. P. Cackowski

### COMPILATION REPORT T-12152

### PHOTOGRAMMETRIC PLOT REPORT

The bridge was run in the Washington Office and the report is included with T-12157 Descriptive Report. Received by final review.

### 31. DELINEATION

The Kelsh Plotter was used for delineation. The area east of Long. 65°37° and south of Lat. 18°16° was compiled from the 1961 photographs, used to compile T-12157 to the south. The remainder of the manuscript was compiled from 1959 photographs.

The color photographs were used as an aid in delineating rocks, coral and shallow areas.

The field inspection was generally adequate.

### 32. CONTROL

The density and placement of bridge points was adequate.

### 33. SUPPLEMENTAL DATA

None.

### 34. CONTOURS AND DRAINAGE

Inapplicable.

### 35. SHORELINE AND ALONGSHORE DETAILS

The mean high-water and low-water lines were delineated according to the field inspection, which was adequate. The shoal and shallow lines and limits of coral were delineated by office interpretation of the photographs. Several questionable coral areas have been called to the attention of the hydrographer (item 49).

### 36. OFFSHORE DETAILS

All rocks, detached ledges and coral areas that could be seen on the photographs were shown. The color prints furnished were particularly useful.

11.

COMPILATION RECORD	COMPLETION DATE	REMARKS
Shoreline and alongshore pass points compiled	May 1962	
Manuscript Complete	July 1966	

### 37. LANDMARKS AND AIDS

One aid and four landmarks (one west of sheet) have been shown.

Form 567 is submitted for three landmarks. One landmark (TOWER) and the aid to navigation (Cabeza de Perro Light) were listed on form 567 with T-12157.

### 38. CONTROL FOR FUTURE\_SURVEYS

Two (2) photo-hydro stations (one north of sheets T-12148) were located and are listed under item 49.

Shoreline pass points have been located by the Kelsh plotter for the use of the hydrographer.

### 39. JUNCTIONS

Junctions have been made with:

T-12145 (1:10,000) to the northwest
T-12146 (1:5,000) to the north
T-12148 also to the north
T-12157 to the south
No junction to the west. Planimetric details were not compiled inland and the shoreline does not touch the western limits.
Water is to the east.

### 40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

### 46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS quadrangle "NAGUABO" dated 1958, "FAJARDO" and "PUNTA PUERCA" dated 1957, scale 1:20,000. The comparison is generally good.

Comparison has also been made with USC&GS topographic survey 6875, 6876a and 6877a, 1;4,800 edition of 1941. These surveys are obsolete for comparison purposes.

### 47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 917, 1:40,000 edition of May 6, 1930 revised Oct. 12, 1959. The comparison is generally good.

### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

### ITEMS TO BE CARRIED FORWARD

None.

Cartographer (Photo)

APPROVED AND FORWARDED

V. Ralph Sobieralski

Tampa District Officer

GEOGRAPHIC NAMES FINAL REVIEW LIST PH-6106 T-12152 (Shoreline)

BAHIA DEMAJUAGA

ISLA CABEZA DE PERRO

PASAJE MEDIO MUNDO
PUERTO MEDIO MUNDO
PUNTA BARRANCAS
PUNTA FIGUERAS
PUNTA FIGUERITA
PUNTA MATA REDONDA
PUNTA MEDIO MUNDO

RIO DEMAJAGUA

SONDA DE VIEQUES

Names are from FINAL NAME SHEETS (3,4, and 6, of 7) on NAGUOBO, PUNTA PUERCA, and FAJARDO, PERTO RICO quadrangles.

M. M. Slavney Final Review

Names approved
May 29, 1968

a.f. Wraight

Frank W. Fickett

### 49. NOTES FOR THE HYDROGRAPHER:

Two (2) photo-hydro stations have been located, one of which falls north of sheet (on T-12148).

110 (NE corner small concrete building)

113 (Control tower)

Several offshore areas have been outlined on the sheet because of their questionable nature. The hydrographer should determine if they are coral. Their locations are:

- 1. Offshore from Punta Barrancas
- 2. Offshore from Punta Mata Redonda
- 3. Area north of Punta Medio Mundo
- 4. Two detached areas north of Isla Pineros

The coral areas were identified but not delimited by the field inspector. Limits shown are from study of Kelsh models and color photographs, when available. The coral limits do not necessarily define the low water line; this has been left for investigation by the hydrographer.

Review Branch **Photogrammetric** 

COAST AND GEODETIC SURVEY U.S. DEPART

OF COMMERCE

# NONTHAGATHNG-SATISFICIA LANDIMARKS FOR CHARTS

STRIKE OUT TWO TO BE CHARTED 19.44c.9545EP

Tampa District Office

19 62

I recommend that the following objects which have (narrand) been inspected from seaward to determine their value as landmarks be The positions given have been checked after listing by

I. I. Saperstein charted on (delated from) the charts indicated.

HESRO RICO								V. Tie	V. Raiph Someraism	10 a 1 3 m		intey o	Caley of range.
New Teach Might   New Teach	STATE					POSITION			METHOD			THAKS	
New Transfer   Park		PUERTO IUCO		7	TTUDE *	NOT	OTTUDE *		LOCATION	DATE		HEG!	CHARTS
Santa Haria Stack, 19h1   18 15 \frac{99,803}{199,100} \frac{65 36}{159,100} \frac{123,66}{165,100} 123,66	CHARTING	DESCRIPTION	BIGNAL		D.M. DETERS		D. P. METERS	DATUM	SURVEY No.	LOCATION			
(Santa Harla Stack, 19h1)   18 15	TACK	ht- 73 (91)		16 16	1193.0	65 38	, ,	Pico	和光路	#9362°	H	1	200
Contact, carrier, 18 15 \frac{52860}{1810.6} 65 38 \frac{52412}{1268.6} 0 \frac{121926}{1268.6} 0 \f		(Santa Haria Stack, 19h1)	,	,									
(Costba, San Antonio Gatholise  A the 137 (203)  A the 137 (204)  A the 137 (203)  A the 13	FURCH OWER	N. 43 (118) OUTSIDE LIMITS		18 15	Peli6.6	65 38	<b>55.848</b>		-Bigg				282
* Date taken from subclession date on Form   137 (203)  * Date taken from subclession date on Form   18-15 209.0 65-35 55-9   18-15 209.0 65-35 55		(Gelba, San Antonio Catholic						,					
* Date taken from subaleston date on  * Date taken from subaleston  * Date taken from from from from from from from from				·		:		_	1				[ •
* Date taken from substant date on  Pore 567 submitted by field party.  h + 52 (296)  No TE: Landman I dent field an field photograp  Secondary Se	RADIO	nt= 137 (203)		18 15	83:03 19:10	65 38	95.50	tı	-18fz	*		×	£17
# Date taken from subatestan date on  Form 567 submitted by field party.  h + 52 (296)  h + 52 (296)												-	
# Date taken from subsiteston date on  Form 567 submitted by field party.  h + 52 (296)  h + 52 (296)  No 7 E : Londmov 11 Ident field an fell photography  S9-5-3921  No 7 E : Londmov 11 Ident field an fell photography  S9-5-3922		,											i
Pore 567 submitted by field purb.  h + 52 (296)  h + 52 (296)  No 7 E : Londmoll identified on field photograp  S9-5-3921		# Date taken from subrigston d	late on								<u> </u>		
h+ 52 (296) NoTE: Landmark identified on field photograp 59-5-3921		Form 567 submitted by finid part	¥.			ŀ							
NoTE: Landmorth identified on field photograps  59-5-3921  105:11:00 500 from 7-121 52	Towck	+ 4		18-15	<del></del>	1	5.5			) 1261		1 0 3	1 4 5
500 from 7-121 52			•		يبلط	_	`	"	نار ۵۰	Fell 0	1	9	
50060 from 7-121 52						-5-55	u			5		5	
						Positi			İ	10 4	1.	-3	

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

\* TABULATE SECONDS AND METERS

15.

FORM 182 (9-61)		P	НОТО	GRAMMETRIC OF	FICE REVIEW	U	S. DEPARTMENT COAST AND GEO	
50				T- 121			J	
1. PROJECTIO	ON AND	2. TITLE					3. MANUSCRIPT	4. MANUSCRIPT
GRIDS	WHS	WHS		4a. Classification	hobel unclassi	fied	WHS	WHS
		IGHER ACCURACY	STATIO	NS OF THIRD-ORDER	THIRD-ORDER		NTAL STATIONS ( Y (TOPOGRAPHIC	
CONTROL		WHS			XX		<b>†</b>	
STATIONS		to hydro station: WHS	1	NCH MARKS	9. PLOTTING OF TIXES	SEXTANT	W O BRID	PORT
		AIL POINTS KELSH					<u> </u>	****
							1 _	
ALONGSHORE	12. SHOR		13. LC	XX	WHS	LS, ETC.	15. BRIDGES	
AREAS (Nautical Chart Data)	16. AIDS	TO NAVIGATION	.1	17. LANDMARKS WHS		18. OTHI FEA WHS	ER ALONGSHORE TURES	PHYSICAL
	19. ОТНЕ WHS	ER ALONGSHORE CI	ULTURA	L FEATURES				
	20. WATE	ER FEATURES			21. NATURAL GRO	OUND COV	ER	
	WHS	<b>;</b>			XX			
PHYSICAL	22 PLAI	NETABLE CONTOUR	 २s		23. STEREOSCOPI	IC INSTRU	MENT CONTOUR	S
FEATURES		XX			XX			
	24. CON	TOURS IN GENERAL			25. SPOT ELEVAT	IONS		
		XX			XX			
	<b>26.</b> OTHE	ER PHYSICAL FEAT	URES					
	27. ROAD	 Ds		28. BUILDINGS		29. RAU	LROADS	
CULTURAL	<b>X</b>	<b>CX</b>		XX		XX	•	
FEATURES	30. отне ХХ	ER CULTURAL FEA	TURES	1				
-	31. BOUI	NDARY LINES			32. PUBLIC LAND	LINES		
BOUNDARIES	XX				XX	1		
MISCEL- LANEOUS	33. GEOG WHS	GRAPHIC NAMES	<del></del>		34. JUNCTIONS WHS			
			USCRIPT	36. DISCREPANCY	OVERLAY	VERLAY 37. DESCRIPTIVE REPORT		
ľ	WHS	,		XX		WH	3	
		D INSPECTION PHO	D		39. FORMS	vHS		
	SIGNATI	URE OF REYIEWER	hear	euse	SIGNATURE PESS	JPPPPJSO	SEVIEW SECTION	ON OR UNIT
40. FIELD COI	MPLETION	am H. Snearou	<u>use</u> Drrect	IONS TO THE MANUS script. The manuscri	CRIPT-Additions an ot is now complete	Slavney d correction except as	ons furnished by noted in remarks	the field com- on reverse side.
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Mean range 112

### PROJECT NO. Ph. 6106 T. 12152

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Subordinate station . Bahia de Fajardo

Dec. 1961

Date of field inspection

	Time			Height	Height x Ratio		Time			Time
	h. m	-		feet	of ranges		h, m.			h. m
High tide	16 4	7	High tide	8.0	0.8	High tide at Ref. Sta.	16 57	Low tide at Ref. Sta.	ta.	11 11
Low tide	10 5	590	Low tide	0.0	0.0	Time difference	- 092	Time difference		//
Duration of rise or fall	5 490	à	Range of tide		8.0	Corrected time at Subordinate station	16 48	Corrected time at Subordinate station		65 01

	h. m.		feet		feet	Photo. No.
Time <del>H. T. or</del> L. T. Required time Interval	1059	10 5-9 Ht. <del>H. Tror</del> L. T. // ら7~ Tabular correction Stage of tide above MLW	0.0	Feature bares Stage of tide above MLW Feature above MLW		5853944
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M-2617-12

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### FIELD EDIT REPORT T-12152

No field edit report was submitted as such. The Item "SHORELINE INSPECTION", on page 2 of Descriptive Report for "Control and Shoreline" for OPR 423, 1964, which is a part of the hydrographic records states:

"A limited field edit was carried on concurrently with hydrography for each boat sheet. What field edit notes were made were placed on the cronaflex T-sheets and marked on appropriate photos in green ink. T-sheets and accompanying photographs were sent to the Washington Office on September 15, 1964."

#All offshore detail shown on the T-sheet was verified or deleted by the hydrographic party."

This completed the Item.

The field edit was so skimpy, one note on a "bulkhead", and another "pile-boat slip" were the only notes on this entire survey; that it has been classified "None."

M. M. Slavney Final Review

### REVIEW REPORT T-12152 SHORELINE NOVEMBER 1967

### 61. GENERAL STATEMENT:

See Summary accompanying Descriptive Report (page 6).

An ozalid Comparison Print showing the differences noted in Items 62, 63, 64, and 65, is included with the "original" of this report.

### 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Registered Survey T-6875; 1:4,800; Oct. 1941 Registered Survey T-6876a;1:4,800; Aug. 1941 Registered Survey T-6877a;1:4,800; Aug. 1941 Registered Survey T-2538; 1:20,000; 1901

The Comparison Print shows the areas of this map covered by these registered surveys, and the differences in blue.

The surveys are in good agreement with the following exceptions: A jetty at lat. 18° 15.85°, long. 65° 37.75° that is new since T-6876A was done; and a fill, bulkhead and boat slip at lat. 18° 15.1°, long. 65° 36.4°, apparently built since T-6875 was surveyed. There are minor differences in "fast" shoreline, and the registered surveys generalized the mangrove shoreline, or showed it as "approximate" shoreline.

This surveysupersedes the previous registered surveys for nautical chart construction.

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

CAYO ICACOS, P.R., U.S.G.S. quad; 1:20,000; 1943, revised 1958 PUNTA PUERCA, P.R., U.S.G.S. quad; 1:20,000; 1943, revised 1957 NAGUOBO, P.R., U.S.G.S. quad; 1:20,000; 1943, revised 1957 FAJARDO, P.R., U.S.G.S. quad; 1:20,000; 1942, revised 1957

The quadrangle shoreline is on the Comparison Print in brown.

The quadrangle shoreline at Punta Figueras is about 110 meters offshore of that on T-12152. There are also 15 and 20 meter discrepancies at Punta Media Mundo and the shoreline of Bahia Demajagua.

### 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

BOAT SHEET EX 10-3-62 (H-8811); 1:10,000; 1962 BOAT SHEET EX 10-3-62 (H-8811); Skiff sheet overlays.

Fishing platforms, rocks, and underwater obstructions from the boat sheet are on the Comparison Print in green, and are as follows:

Fishing platforms: Fishing Pier at	40 10 14	18.4: 18.55' 18.6' 17.12' 17.84' 17.68'	long.	65° 37.44° 37.39° 37.52° 38.05° 37.82° 38.07°
Rocks at	96 e1 e1 e7 12	18.7° 18.6 17.8 15.7 15.8 15.7 15.56 15.47 15.12 15.02 15.1 15.07		65°37.52° 37.56° 37.9° 36.68° 36.69° 36.45° 36.01° 35.0° 35.0° 34.82° 34.7° 34.53°

5 rocks awash about 125 meters north of Isla Pineros from long. 65° 35.4° to 65° 35.68°.

3 underwater	obstructions in	Puerto		
at:	Lat. 18 <sup>0</sup>	15.55*	Long. 650	36.981
		15.67	-	37.35
		15.94		37.44

The 1962, 1:10,000 scale color photographs were carefully examined for these details, but they were not identifiable. No shoreline changes were noted.

### 65. COMPARISON WITH NAUTICAL CHARTS:

Chart 940; 1:25,000; 3rd edition July 25, 1966 Chart 917; 1:40,000; 6th edition May 16, 1966

The nautical chart differences are on the Comparison Print in red.

The northern limits of Chart 940 are at lat. 18° 15.34° and the comparison north of here utilized chart 917, which is 1:40,000 and required a 4x enlargement.

Agreement with the charts is fair, considering the scale differences. The 1962 color photographs were examined for rocks, etc. on the charts and not on this survey, see Item 64.

Chart 917 shows a "Fence" at lat. 18 15.85', long. 65° 37.75', which this survey shows as a "Rock jetty". See field inspection photo 59-S-3944. It is noted that "Skiff" sheet No. 1 of EX-10-3-62 describes a signal "COW", on the jetty as "wh. X bar on rock jetty".

It is noted that the interior details of Chart 917 in the area south of 18° 15.34° do not agree with this survey or with Chart 940.

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

This survey complies with the project instructions, Bureau requirements, and meets the National Standards for Map Accuracy. No accuracy tests were run in the field.

Reviewed by:

Approved by:

J. Bull, RADM, USESSA

Director, Atlantic Marine Center

Approved by:

Chief, Operations Division

### NOTES TO VERIFIER T-12152 Project Ph-6106 BOAT SHEET NO. EX-10-3-62 (H-8811)

Please refer to Items 64 and the paragraph pertaining to the "fence" or "rock jetty" in Item 65.

### NAUTICAL CHART DIVISION

### **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

### INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE		
6000		CARTOGRAPHER	Adequately Applied REMARKS and field
917	9/27/74	R. Maito	Full Cart Bolore After Verification Review Inspection Signed Via
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FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975

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