

12158

ORIGINAL

12158

12158

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-12158
LOCALITY	
State	PUERTO RICO
General locality	EAST COAST
Locality	PLAYA DE HUMACAO TO
	RIO HUMACAO
1959 - 1962	
CHIEF OF PARTY	
M. L. Olivier, Photo Party 708	
V. Ralph Sobieralski, Tampa District Office	
LIBRARY & ARCHIVES	
DATE	1 JUL 1968

USCOMM-DC 5087

## DESCRIPTIVE REPORT - DATA RECORD

T -12158

PROJECT NO. (II):

Ph-6106 (21042)

FIELD OFFICE (II):

Puerto Rico

CHIEF OF PARTY

M. L. Olivier

PHOTOGRAMMETRIC OFFICE (III):

Tampa, Florida

OFFICER-IN-CHARGE

V. Ralph Sobieralski

INSTRUCTIONS DATED (II) (III):

Field and Office - Aug. 30, 1961

Amendment: Field and Office - Jan. 15, 1962 \*

*\* Interior planimetry restricted to those features useful to photo hydro support*

METHOD OF COMPILATION (III):

Kelsh plotter

MANUSCRIPT SCALE (III):

1:10,00

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

APRIL 13, 1968

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

Puerto Rico

VERTICAL DATUM (III): MHW

~~MEAN SEA LEVEL~~ 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):

PASTO VIEJO EASTERN SUGAR ASSOC. WHITE CONCRETE STACK, 1941

LAT.:

18°10'24.258" (745.8m.)

LONG.:

65°47'15.849" (465.8m.)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

Y = 123,877.09 Ft.

X = 724,098.39 Ft.

STATE

Puerto Rico

ZONE

Lambert

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.

## DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): <b>M. L. Olivier</b>		DATE: <b>Oct. 1961</b>
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): <b>Field inspection</b>		<b>Oct. 1961</b>
PROJECTION AND GRIDS RULED BY (IV): <b>A. R. Riley</b>		DATE <b>Nov. 1961</b>
PROJECTION AND GRIDS CHECKED BY (IV): <b>D. K. H. (W.O.)</b>		DATE <b>Nov. 1961</b>
CONTROL PLOTTED BY (III): <b>I. I. Saperstein</b>		DATE <b>Dec. 1961</b>
CONTROL CHECKED BY (III): <b>V. P. Cackowski</b>		DATE <b>Dec. 1961</b>
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): <b>Washington Office</b>		DATE <b>Nov. 1961</b>
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY <b>I. I. Saperstein</b>	DATE <b>Dec. 1961</b>
	CONTOURS <b>Inapplicable</b>	DATE
MANUSCRIPT DELINEATED BY (III): <b>I. I. Saperstein</b> " " Reviewed by: <b>M. M. Slavney</b>		DATE <b>Dec. 1961</b> <b>Dec. 1961</b>
SCRIBING BY (III): <b>P. W. Leikhim</b> " Reviewed by: <b>W. H. Shearouse</b>		DATE <b>May 1963</b> <b>May 1963</b>
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): <b>M. M. Slavney</b>		DATE <b>June 1963</b>
REMARKS: <i>Field Edit by G.F. Wirth, Sept. 1962</i>		

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild "S"

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
59-S-3928, 3929	4-18-59	1124	Diapositives 1:30,000	*
59-S-3930, 3931	:	1125	:	

## TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: *Nearest subordinate station is 1 1/4 miles; a tidal bench mark in this area gave 0.4 ft. for			
SUBORDINATE STATION: H.W. Tide is negligible			
SUBORDINATE STATION:			

Atlantic Marine Center  
WASHINGTON OFFICE REVIEW BY (IV):

M. M. Slawey

DATE:

Feb. 1968

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

3

RECOVERED:

2\*\*

IDENTIFIED:

1

NUMBER OF BM(S) SEARCHED FOR (II):

0

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

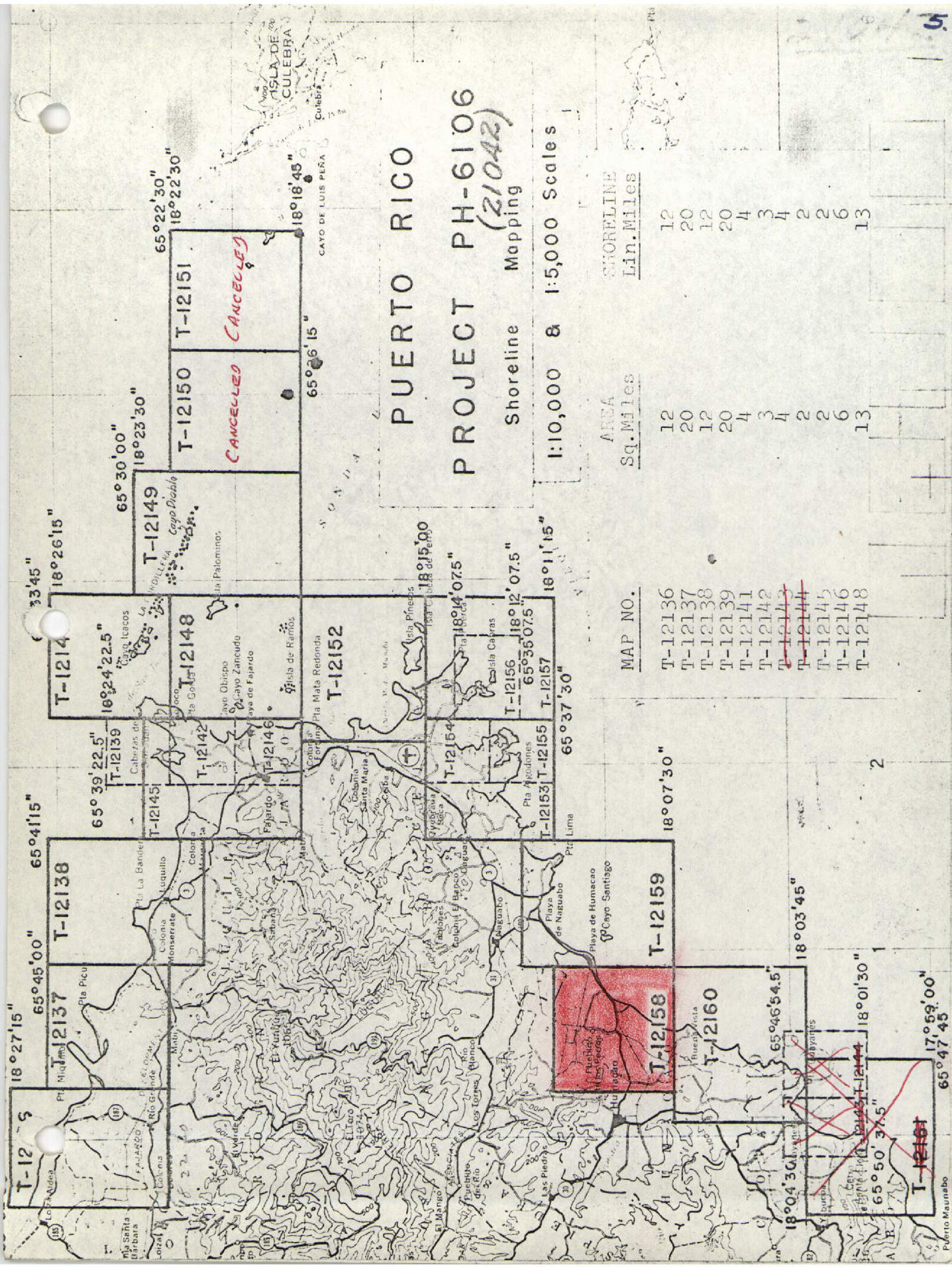
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

2

REMARKS:

\*\* One station falls west of project.





PUERTO RICO  
PROJECT PH-6106  
(21042)  
Shoreline Mapping

1:10,000 & 1:5,000 Scales

AREA  
Sq. Miles

SHORELINE  
Lin. Miles

MAP NO.

T-12136	12
T-12137	20
T-12138	12
T-12139	20
T-12141	4
T-12142	3
<del>T-12143</del>	<del>4</del>
<del>T-12144</del>	<del>2</del>
T-12145	2
T-12146	6
T-12148	13



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12158

Shoreline manuscript T-12158 is one of sixteen 1:10,000 scale maps in Ph-6106, Puerto Rico, which also contains eight 1:5,000 scale maps. The sketch on page 5 of this report shows the position of this map in the project. It is noted that 1:5,000 scale maps T-12143 and T-12144, and 1:10,000 scale maps T-12150, T-12151, and T-12161 of this project are ~~in a "postponed" status until some future time~~ cancelled. *M.D.S.*

This is a stereo instrument project in advance of hydrographic surveys of the area. Field work preceding compilation consisted of control identification on contact prints and field inspection on 1:10,000 ratio prints of the 1:30,000 scale April 18, 1959 "S" photographs. The stereo bridge was run in the Washington Office. Compilation was by Kelsh Plotter using diapositives of the April 1959 "S" photographs. Ratio prints at 1:10,000 scale were processed and furnished for hydro support.

The manuscript was field edited in September 1962 in conjunction with hydro-support. The field edit was done on the cronaflex "T"-sheet, which was to be returned to the ship. An ozalid print was made from the field edit T-sheet, with the field editors notes underscored in red; this print was used in final review.

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

FIELD INSPECTION REPORT  
Project Ph-6106  
Maps T-12156 thru T-12161

- 7 -

2. AREAL FIELD INSPECTION

These shoreline sheets are located on the southeasterly side of Puerto Rico. The area is rural except for two beach resorts. The shoreline area is very undeveloped.

Field inspection was performed on photographs 59-S-3925 through 59-S-3937. The photographs contained some clouds but were otherwise of good quality. No difficulty was encountered in the interpretation in the field. Some shoreline areas around the mouths of streams had changed since photography. These changes are shown on the photographs in violet ink.

A large amount of rainfall fell during field inspection making it very difficult to wash some of the interior features. Some of the marsh and swamp areas may have to be clarified by the field editor.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey control stations except one were searched for. No attempt was made to recover SAN, 1901 because this station is located on an island used as a breeding ground for monkeys. Nobody is allowed on the island. One might possibly obtain permission to visit the island if contact is made with the Laboratory of Perinatal Physiology, Post Office Box 5095, San Juan, Puerto Rico.

Only those stations as specified on the project diagram were photo-identified. To meet this requirement some United States Geological Survey control was used. The following U. S. G. S. control stations were recovered and photo-identified: HUMACAO PLAYA CHURCH, 1934; COLON, 1941; and NAGUABO CHURCH, 1934.

The following Coast and Geodetic Survey control stations were searched for but not recovered: YEGUAS, 1901; BARBACOA, 1901; LIMA 3, 1941; and RON ROIG LARGE RED STK., 1901.

4. VERTICAL CONTROL

All tidal bench marks in the area were searched for but only one was recovered.

5. CONTROL AND DRAINAGE

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

Drainage is mostly perennial and can be distinguished on the photographs.

6. WOODLAND COVER

Woodland cover has been classified in accordance with the requirements for topographic maps. Wooded areas are adequately covered by the field inspection photographs. Most of the swamp areas were designated as mangrove.

## 7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected by walking along the beach and by examination from strategic points.

The shoreline, in places, was visited at low water. The distance from the mean low water line to the mean high water line was given at these points.

The foreshore is steep in some areas and flat in other areas.

Docks, wharves, piers, etc. are covered on the photographs.

There are no submarine cables.

## 8. OFFSHORE FEATURES

Some offshore rocks were visited and their heights above water and the time and date have been noted on the photographs. Other heights of rocks were determined from shore. There are a few areas where it appears on the photographs that the water is breaking over an underwater growth or submerged rocks. These places will require investigation by the hydrographic party.

## 9. LANDMARKS AND AIDS

Landmarks and aids to navigation located by photogrammetric methods are shown on the contact prints. All others were located previously by triangulation and have not been disturbed.

Quite a few landmarks were selected, and since all were not inspected from seaward, the hydrographic party may need to delete those not thought to be of landmark value. All heights of new landmarks to be charted were determined. Heights of existing landmarks were determined and verified where possible.

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

## 10. BOUNDARIES, MONUMENTS, AND LINES

Boundaries were excluded by the project instructions.

## 11. OTHER CONTROL

Existing objects that are suitable for photo hydro control were identified on the field inspection photographs. These are shown on the photographs by three digit numbers beginning with 100. Not many objects were selected because of the scarcity of such. Many of the landmarks and aids will be suitable for photo hydro control.



## 12. OTHER INTERIOR FEATURES

All buildings and roads have been classified in accordance with project instructions dated 30 August 1961. It will be noted by looking at the photographs covering sugar cane areas that many open spaces appear to be roads. Only those open spaces that seemed permanent and well traveled were classified as roads.

Clearances were determined for the following bridges and are listed: (See photo 59-S-3927 for names of rivers)

<u>Bridge</u>	<u>Hor. Clearance</u>	<u>Vert. Clearance</u>	<u>Time</u>	<u>Date</u>
Rio Santiago	17.3 ft.	4.7 ft.	10:25 AST	10-6-61
Rio Blanco	26.9 ft.	5.1 ft.	10:30 AST	10-6-61
Rio Anton Ruiz	26.9 ft.	5.2 ft.	10:43 AST	10-6-61
Boca Prieta	18.9 ft.	5.5 ft.	10:50 AST	10-6-61

## 13. GEOGRAPHIC NAMES

An investigation of geographic names was not required by the project instructions. Some discrepancies in the names of rivers were found. The names of rivers are shown correctly on the photographs.

## 14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Contact photographs and horizontal control data was forwarded to the Washington Office 3 October 1961.

Submitted  
24 October 1961

*Michael L. Olivier*  
Michael L. Olivier  
Chief, Photo Party 708

19a

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 #4 was adjusted on a linear basis. All other strips  
were adjusted on a least-squares basis on the IBM 650 com-  
puter. 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:

Δ PINERITA 2, 1941-SUB.PT. 2. This station had been desig-  
nated 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 aerotriangula-  
tion.

Submitted by:

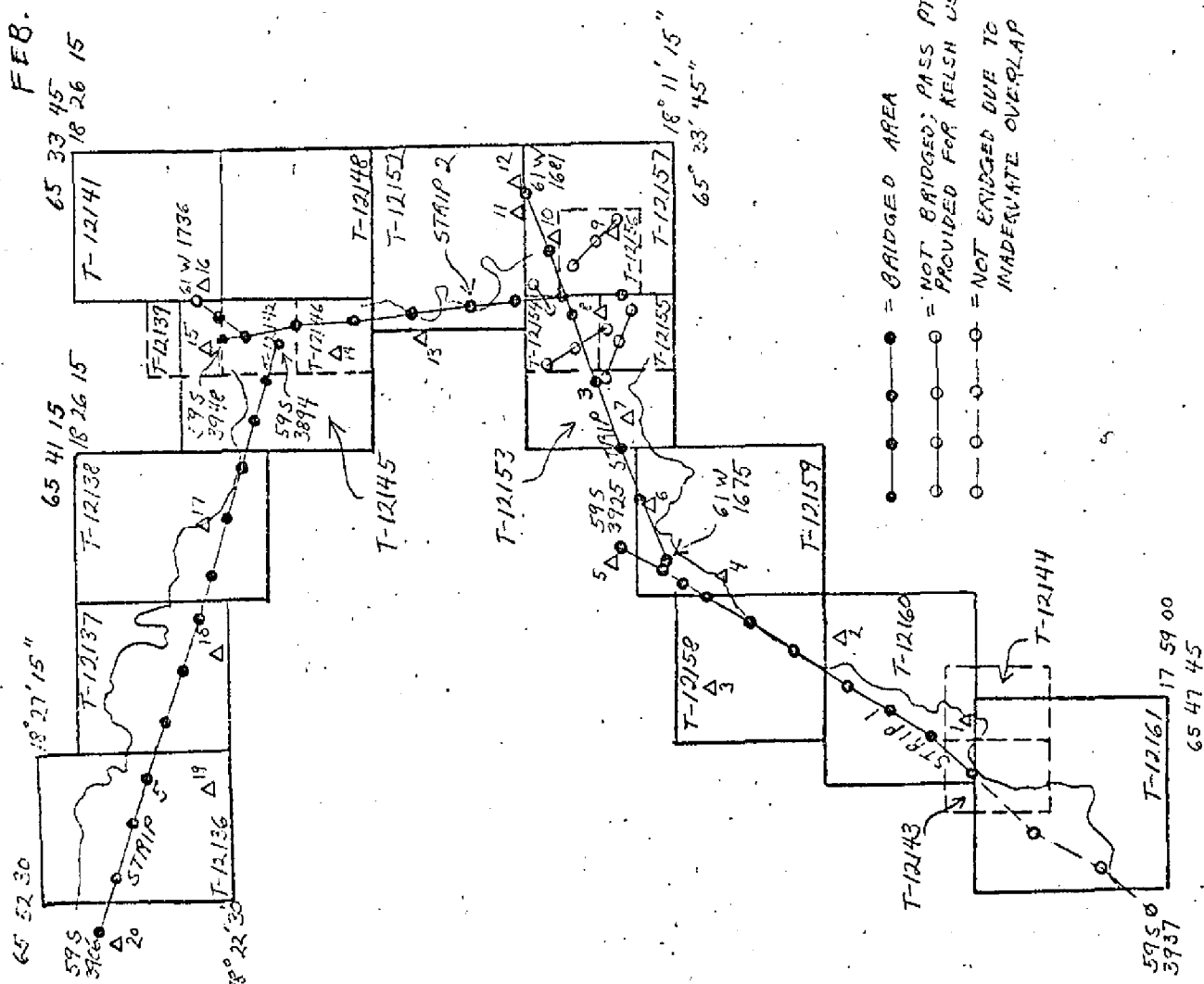
R. E. Fuechsel  
R. E. Fuechsel

Approved:

E. H. Ramey  
E. H. Ramey, Chief  
Aerotriangulation Section

PROJECT PH-6106

Feb. 1962



TRIANGULATION LIST

1. GUAYMANES 2, 1923-SUB. 1+2
2. BATATA, 1901-SUB. 1+2
3. PASTO VIEJO EASTERN  
SUGAR ASSN. WA. CO. H.
4. HUMACAO PLAYA CH,  
(USGS) 1934
5. NAGUABEO CH. (USGS) 1934
6. COLAN (USGS) 1941-SUB. 1+2
7. LOMA 1941 - SUB. 1+2
8. HONDA 1941+ SUB. 1+2
9. CABRAS IS. LT., 1941
10. MONDO, 1926 - SUB. 1+2
11. PINERITA 2, 1941-SUB. 1+2
12. CAJUELA DE PESO LT., 1923
13. FENECO, 1941-SUB. 1+2
14. CENTRAL FAJARDO  
NORTH STAC. 1944
15. CAPE, 1901-SUB. 1+2

MAP T-12158 PROJECT NO. PH-6106 SCALE OF MAP 1:10,000 SCALE FACTOR

[illegible]



COMPILATION REPORT  
T-12158

PHOTOGRAMMETRIC PLOT REPORT

Stereo bridge was run in the Washington Office (*see pages 10a & 10b*).

31. DELINEATION

The Kelsh Plotter was used. The field inspection was adequate and no difficulty was encountered in the interpretation of the photographs. Numerous shoreline pass points have been dropped as an aid to the photo-hydro party.

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline and low water line were delineated according to the field inspection which was adequate. There are no alongshore details.

36. OFFSHORE DETAILS

The only offshore details are some small rocks immediately offshore from El Morillo.

37. LANDMARKS AND AIDS

There is one (1) landmark. Form 567 is included in this report. There are no fixed aids to navigation.

## COMPILATION RECORD

## COMPLETION DATE

## REMARKS

Alongshore area for hydro	Dec. 1961	Superseded
Alongshore area revised from field edit. Manuscript Complete	Nov. 1962	<i>Superseded</i>
<i>Final Review</i>	<i>Feb. 1968</i>	

38. CONTROL FOR FUTURE SURVEYS

Two (2) photo-hydro stations were identified by the field inspector and located by the compiler. They are listed under Item 49.

39. JUNCTIONS

Junctions have been made with T-12159 to the east; T-12160 to the south; no contemporary survey to the north or west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

No quadrangle maps available at this time for comparison.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 923 scale 1:20,000, edition of Aug. 3, 1929, revised Aug. 18, 1958. The comparison is favorable except that the railroad east of the highway is non-existent.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

*I. I. Saperstein*  
I. I. Saperstein  
Cartographer (Photo)

APPROVED AND FORWARDED:

*V. Ralph Sobieralski*  
V. Ralph Sobieralski  
Tampa District Officer

GEOGRAPHIC NAMES  
FINAL NAME SHEET

PH-6106 (Puerto Rico)  
T-12158

- \* ~~Anton Ruiz~~
- \* ~~Bajandas~~
- \* ~~Caribbean Sea~~ *Mar Caribe - ff.* *See below*
- \* ~~El Morillo~~
- \* ~~Junio~~
- \* ~~La Suiza~~
- \* ~~Los Perros~~
- \* ~~Mayo~~
- \* ~~Miraflores~~
- \* ~~Pasaje de Vieques~~
- \* ~~Pasto Viejo~~ *Playa de Humacao - ff.*
- \* ~~Puerto de Humacao~~
- \* ~~Punta Santiago~~
- \* ~~Quebrada Catano~~
- \* ~~Quebrada Icacos~~
- \* ~~Rio Abajo~~
- \* ~~Rio Anton Ruiz~~
- \* ~~Rio Humacao~~
- \* ~~Santa Teresa~~

\* Interior feature, not mapped

Approved by:

*A. J. Wraight*

Chief Geographer  
A. J. Wraight

Prepared by:

*Frank W. Pickett*

Cartographic Technician  
Frank W. Pickett

\* \* NOTE: The last BGN decision - 1944 - was  
"Caribbean Sea". Mar Caribe is used  
on nautical charts. S.B.



49. NOTES FOR THE HYDROGRAPHER

Two (2) photo-hydro stations were established.

100 - E. Gable yellow house, red roof.

102 - NE point of rock outcrop.

## Photogrammetric Review Branch

## NONPLAGIATING AIDS OR LANDMARKS FOR CHARTS

TO BE DELETED  
TO BE DELETED  
TO BE DELETED  
STRIKE OUT TWO

**Tampa District Office** **December 20, 1961**

I recommend that the following objects which have ~~(been inspected)~~ been inspected from seaward to determine their value as landmarks be ~~deleted from~~ the charts indicated.

The positions given have been checked after listing by

# I. I. Saperstein

**V. Ralph Robinson** Chief of Party.

[illegible]

*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**

### Photogrammetric Review Branch

TO BE CHARTED  
~~TO BE CHARTED~~  
~~TO BE CHARTED~~

STRIKE OUT TWO

I recommend that the following objects which have ~~(been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(the chart)~~ the charts indicated.

The positions given have been checked after listing by

**I. I. Saperstein**

**W. Ralph E. Fitzgerald** .. Chief of Party.

STATE  
PUERTO RICO[illegible]

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**

## NON-TECHNICAL AIDS OR LANDMARKS FOR CHARTS

~~TO BE EXAMINED~~  
~~TO BE EXAMINED~~  
~~TO BE EXAMINED~~  
~~TO BE DELETED~~

**STRIKE OUT TWO**

**Parsons District Office**

~~December 21, 1961~~

I recommend that the following objects which have ~~(been inspected)~~ been inspected from seaward to determine their value as landmarks be charted off ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by

## I. I. Svarstol

[illegible]

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.



FORM 182 (3-61)		PHOTOGRAMMETRIC OFFICE REVIEW T. 12158		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
1. PROJECTION AND GRIDS <b>MMS</b>		2. TITLE <b>MMS</b>		3. MANUSCRIPT NUMBERS <b>MMS</b>	
		4a Classification label <b>unclassified</b>		4. MANUSCRIPT SIZE <b>MMS</b>	
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY <b>MMS</b>		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) <b>MMS</b>		
	7. PHOTO HYDRO STATIONS <b>MMS</b>	8. BENCH MARKS <b>None</b>	9. PLOTTING OF SEXTANT FIXES <b>XX</b>	10. PHOTOGRAMMETRIC PLOT REPORT <b>W.O.</b>	
	11. <del>ALONGSHORE</del> Shoreline pass points				
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE <b>MMS</b>		13. LOW-WATER LINE <b>MMS</b>		14. ROCKS, SHOALS, ETC. <b>MMS</b>
	15. BRIDGES <b>None</b>		16. AIDS TO NAVIGATION <b>None</b>		17. LANDMARKS <b>MMS</b>
	18. OTHER ALONGSHORE PHYSICAL FEATURES <b>MMS</b>		19. OTHER ALONGSHORE CULTURAL FEATURES <b>MMS</b>		
PHYSICAL FEATURES	20. WATER FEATURES <b>MMS</b>		21. NATURAL GROUND COVER <b>MMS</b>		
	22. PLANETABLE CONTOURS <b>XX</b>		23. STEREOSCOPIC INSTRUMENT CONTOURS <b>XX</b>		
	24. CONTOURS IN GENERAL <b>XX</b>		25. SPOT ELEVATIONS <b>XX</b>		
	26. OTHER PHYSICAL FEATURES <b>MMS</b>				
CULTURAL FEATURES	27. ROADS <b>MMS</b>		28. BUILDINGS <b>MMS</b>		29. RAILROADS <b>MMS</b>
	30. OTHER CULTURAL FEATURES <b>MMS</b>				
BOUNDARIES	31. BOUNDARY LINES <b>XX</b>		32. PUBLIC LAND LINES <b>XX</b>		
MISCEL- LANEOUS	33. GEOGRAPHIC NAMES <b>MMS</b>			34. JUNCTIONS <b>MMS</b>	
	35. LEGIBILITY OF THE MANUSCRIPT <b>MMS</b>		36. DISCREPANCY OVERLAY <b>XX</b>		37. DESCRIPTIVE REPORT <b>MMS</b>
	38. FIELD INSPECTION PHOTOGRAPHS <b>MMS</b>		39. FORMS <b>MMS</b>		
	SIGNATURE OF REVIEWER <i>M. N. Slavney</i> <b>M. N. Slavney</b>		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT <i>William A. Rasure</i> <b>William A. Rasure</b>		
40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT - Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.					
SIGNATURE OF COMPILER <i>Henry J. Saperstein</i>			SIGNATURE OF SUPERVISOR <i>M. N. Slavney</i>		

USE REVERSE SIDE FOR REMARKS

FIELD EDIT NOTES  
OPR 423-1962  
USC&GS Ship EXPLORER

All field edit notes have been delineated on the mylar T-Sheets. In general, the only discrepancies found were differences in the delineation of the mean high water line along sand beaches. These discrepancies were resolved with distance measurements from the hydrographic signals to the mean high water line. The azimuth used was a perpendicular line from the mean high water line to the respective signal. Each T-Sheet is discussed separately below with a listing of the necessary photos.

T-12160 - Mean high water line revision in area of "BED" appears necessary. Rock height revisions necessary in the following areas: HER, LOG, FOX, AND DIX.  
Photos - 59S3933, and 3932.

T-12158 - Mean high water line revision along entire beach line appears necessary.  
Photos - 59S3931, 3930, 3929, and 3928.

T-12159 (2 copies) - Mean high water line revision in area of DUM to ABE. Rock height revisions in the following areas: HUG, GEO, and WIG.  
Photos - 59S3927, 3926, and 61W1676.

T-12153 - Rock height revision in area of JIM.  
Photos - 61W1678 and 1679.

T-12155 - Rock height revision in area of CUT.  
Photos - 61W1559 and 61W1560.

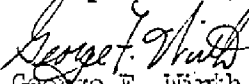
T-12156 - Rock height revisions in the following areas: EVA (2), KEN, and CRY.  
Photos - 61W1584 and 1585.

T-12154 - Pier revision at OIL.  
Photos - None

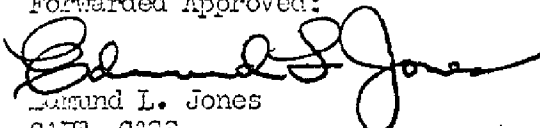
T-12157 - None

All T-Sheets, since they contain final locations of hydrographic signals, must be returned to this command as soon as possible as they are needed to plot hydrographic smooth sheets.

Respectfully submitted:  
10 September 1962

  
George T. Wirth  
LT, C&GS

Forwarded Approved:

  
Edmund L. Jones  
CAPT, C&GS  
Comdg., Ship EXPLORER

REVIEW REPORT T-12158  
SHORELINE  
February 1968

61. GENERAL STATEMENT:

See Summary on page 6 of this report.

An ozalid Comparison Print (pages ~~22~~<sup>and</sup> through ~~23~~), which shows the differences noted in Items 62, 64 and 65, is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Registered Survey 4323; 1:20,000; February 1927

Differences with this survey are shown on the Comparison Print in blue.

There has been an apparent shift of the shoreline seaward of up to 40 meters, with the exception of the area at El Morrillo which has receded 10 to 20 meters.

This survey supersedes the previous registered survey for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

HUMACAD, P.R.: U.S.G.S.; 1:20,000; 1943, revised 1958.

Agreement appears good.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

BOAT SHEET EX-10-1-62 (H-8637); 1:10,000; 1962

Some small changes from field edit of the shoreline south of El Morrillo are not on the boat sheet. The boat sheet shoreline is in green on the Comparison Print (page 23).

65. COMPARISON WITH NAUTICAL CHARTS:

CHART 923; 1:20,000; 3rd edition, May 9, 1966

The chart is in fair agreement, with the inlet at latitude 18° 07.8' being the most prominent disagreement. The chart details are on the Comparison Print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with the project instructions, Bureau requirements, and the National Standards for Map Accuracy. No accuracy tests were run in the field; the field editors' measurements to the shoreline were from photo points.

Reviewed by:

M. M. Slavney  
M. M. Slavney

Approved by:

For P. C. Stark  
J. Bull, RADM, USESSA  
Director, Atlantic Marine Center

Approved by:

Charles Thomson  
Chief, Photogrammetric Branch <sup>AB</sup>

J. Ralph Sobieralski JUL 1 1968  
Chief, Photogrammetry Division

John C. Boyer  
Chief, Nautical Chart Division

NOTES TO VERIFIER  
T-12158, Project Ph-6106  
BOAT SHEET EX-10-1-62

Item 64 may be of interest.



Playa de Hum.

100 (E gable yellow ho red roof)

Puerto de Humacao

59-S-3929

Reg. Survey 4323  
 Chart 923  
 BOAT SHEET EX10-1-62  
 U.S.G.S. gund HUMACAO

Note: Inlet closed during dry season

"Foul"

102 (NE point of rock outcrop)

El Morrillo

Only 3 rocks here, their positions on Chart 923 are about 7 meters north of the positions on T-12158



59-S-3930

Reg. Survey 4323  
 Chart 923  
 Boat sheet EX 10-1-62 shoreline  
 was from pre field edit.

Note: Inlet closed during dry season

$x = 730,000$  FT.

46'30"

46'

- △ Recoverable horizontal control station of third-order or higher accuracy
- Recoverable horizontal control station of less than third-order accuracy
- Approximate mean low water line
- Approximate mean high water line
- The heavy shoreline defines the approximate mean high water line
- The heavy shoreline defines the approximate mean high water line
- The heavy shoreline defines the approximate mean high water line

April 1959  
 1961

