

12153

ORIGINAL

12153

12153

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-12153
LOCALITY	
State	PUERTO RICO
General locality	EAST COAST
Locality	CAYO ALGODONES
1958 19 62 -65	
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- 12153

PROJECT NO. (II):

Ph-6106 (21042)

FIELD OFFICE (III):

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 August 30, 1963
Field and Office, Amend. January 16, 1962 X
15* Interior planimetry restricted to those features useful to photo hydro support
568

METHOD OF COMPILATION (III):

Kelsh plotter

MANUSCRIPT SCALE (III):

1:10,000

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

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):

SOUTH 1941

LAT.:

18°12'12.776" (392.8 m)

LONG.:

65°39'03.720 (109.3 m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

=135,007.53 Ft.

X=771,503.24 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): M. L. Olivier		DATE: Dec. 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of photography - Oct. 1961 <i>Mar. 1965 { REFER TO PAGE 6 (SUMMARY) AND FINAL REVIEW REPORT }</i>		
PROJECTION AND GRIDS RULED BY (IV): A. Riley		DATE Jan. 1962
PROJECTION AND GRIDS CHECKED BY (IV): I. Y. Fitzgerald		DATE Jan. 1962
CONTROL PLOTTED BY (III): I. I. Saperstein		DATE Mar. 1962
CONTROL CHECKED BY (III): I. I. Saperstein		DATE Mar. 1962
RADIO PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Washington Office		DATE Jan. 1962
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY I. I. Saperstein	DATE Mar. 1962
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): I. I. Saperstein " " Reviewed by W. H. Shearouse		DATE Apr. 1962 Apr. 1962
SCRIBING BY (III): R. D. Purvis " Reviewed by W. H. Shearouse		DATE Mar. 1963 Mar. 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): W. H. Shearouse		DATE May 1963
REMARKS: <i>Field edit by G.F. Wirth, Summer 8 1962</i>		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild "S" and "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE *
58-S-2625 & 2626	? 1958	12:29	1:10,000	
61-W-1677 thru 1679	Oct. 26, 1961	15:02	1:30,000 Diapositive *	
See reports T-12154 and T-12155 for photographs used in compiling shoreline east of 95°39'09"				
65-L-1330, 1331, 1335, 1336, 1337	3/5/65	1520-1523	1:15,000	color

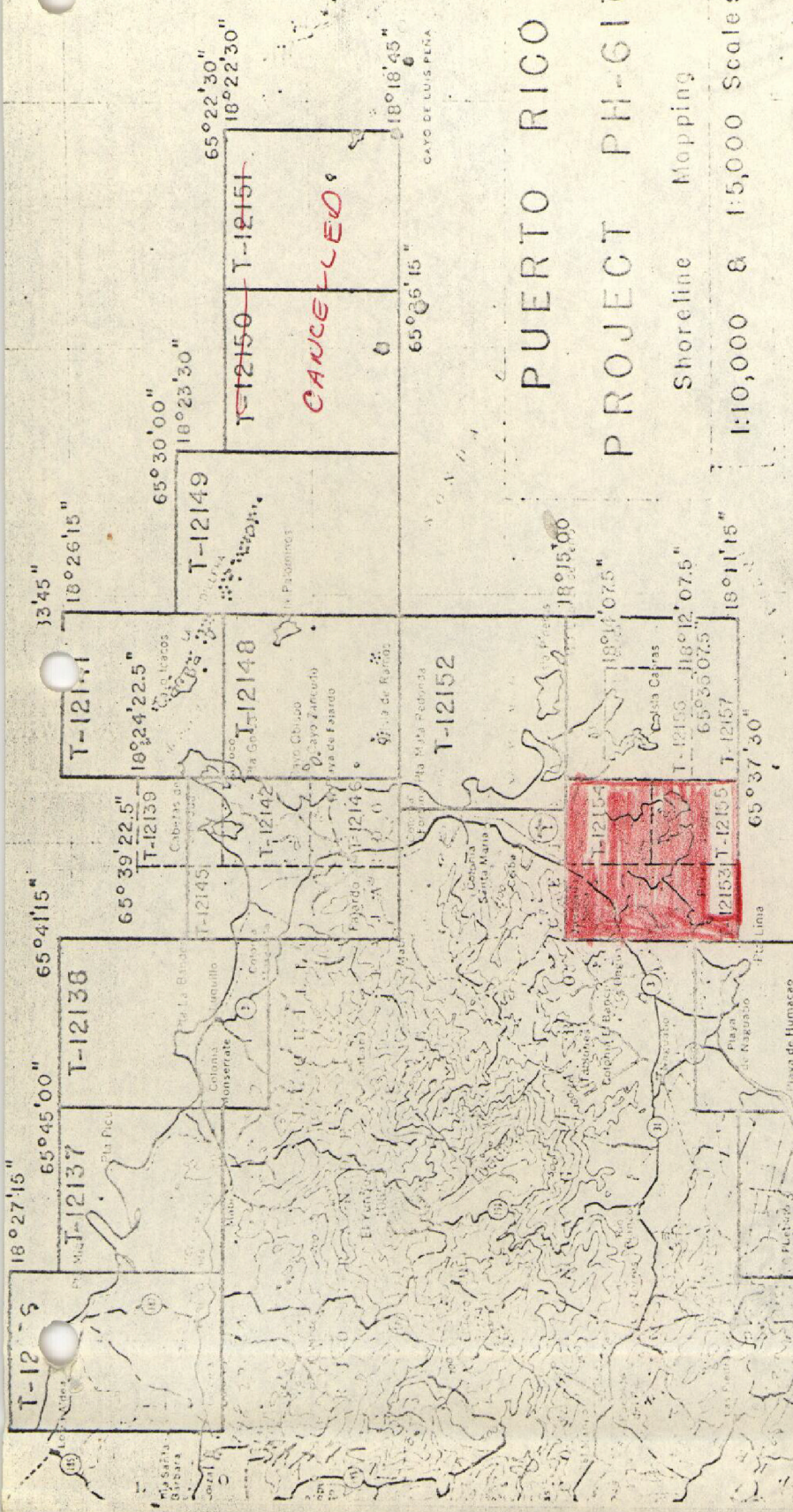
TIDE (III)

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: *No subordinate station in area. Chart No. 922 gives range of Tide in Ensenada Florida as 0.7 Ft.				
SUBORDINATE STATION:				
SUBORDINATE STATION:				
Atlantic Marine Center WASHINGTON OFFICE REVIEW BY (IV):		DATE: Dec. 1967		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III): 16**	RECOVERED: 7	IDENTIFIED: 2		
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): 0				

REMARKS:

**7 stations searched for, form 526 submitted with T-12154 and T-12155 data.

2104.5



PUERTO RICO PROJECT PH-6106

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

AREA
Sq. Miles

MAP NO.

MAP NO.	AREA Sq. Miles	SHORELINE Lin. Miles
T-12136	12	12
T-12137	20	20
T-12138	12	12
T-12139	20	20
T-12141	4	4
T-12142	3	3
T-12143	4	4
T-12144	2	2
T-12145	2	2
T-12146	6	6
T-12148	13	13

6.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12153

Shoreline manuscript T-12153 is one of sixteen 1:10,000 scale maps in PH-6106, Puerto Rico, which also contains eight 1:5,000 scale maps. The eastern 1.75 minutes of T-12153 were from a photographic reduction of surveys T-12154 and T-12155 of this project, which were compiled at 1:5,000 scale; see Descriptive Reports for these surveys. The sketch on page 5 of this report shows the position of these manuscripts 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~~ cancelled. *m.m.s*

This is a stereo-instrument project in advance of hydrographic surveys of the area. Field inspection was done on 1:10,000 ratio prints of the 1:30,000 "S" camera panchromatic photographs taken April 18, 1959. Compilation of the T-12154 and T-12155 parts of this survey was done with 1:15,000 photographs made with the "W" camera on Oct. 19, 1961; the western part of T-12153 was compiled with 1:30,000 "W" camera photographs taken Oct. 26, 1961. Color photographs at 1:10,000 taken with the "S" camera during 1958, and on Feb. 17, 1962 were used for reference. 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 photo-hydro support.

Revision of the Ensenada Honda area was done during final review using 1965 color photographs because extensive changes were made in the area after the 1962 field edit. These revisions all fall within T-12154 and T-12155 (1:5,000 surveys), which were then reduced and incorporated in this survey. Please see addendum to the Compilation Report (page 12A).

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

FIELD INSPECTION REPORT

- 7 -

2. AREAL FIELD INSPECTION

T-12139, T-12142, T-12145, T-12146, and T-12152 through T-12157,
These shoreline sheets_A are located on the eastern coast of Puerto Rico. The area is undeveloped except for the village of Fajardo and the Roosevelt Roads Naval Reservation.

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. CONTOURS 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 for topographic maps. Wooded areas are adequately covered by the field inspection photographs.

Swamp areas were designated as mangrove. There is considerable mangrove throughout the area.

7. SHORELINE 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 on the 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. BOUNDARIES, 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. OTHER INTERIOR FEATURES

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

13. GEOGRAPHIC NAMES

An investigation of geographic names was not required by the project instructions. 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 REPORTS 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
Michael L. Olivier
Michael L. Olivier
Chief, Photo Party 708

8.

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.

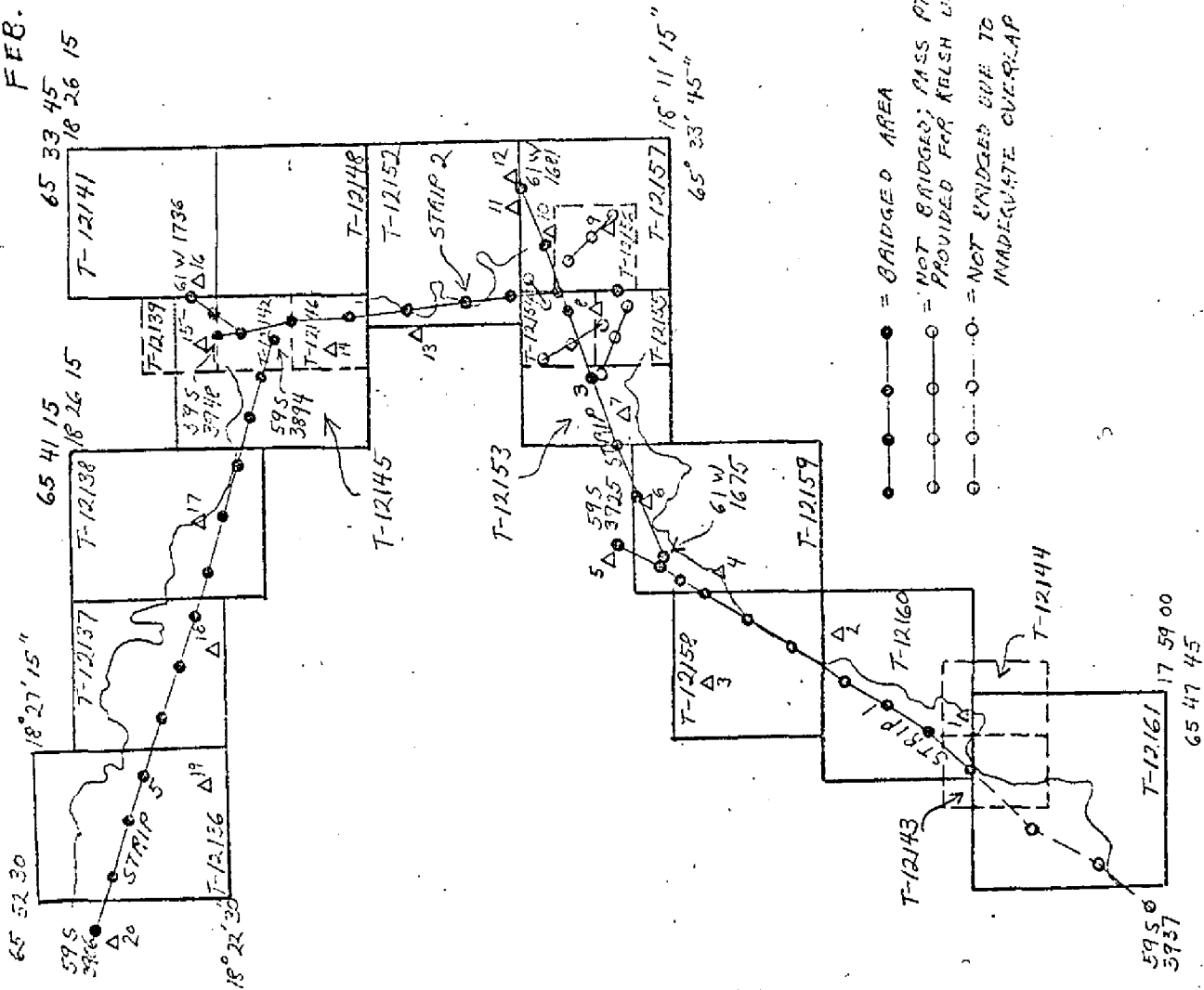
Submitted by:

R. E. Fuechsel
R. E. Fuechsel

Approved:

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

PUERTO RICO - EAST COAST PROJECT PH-6106 FEB. 1962



TRIANGULATION LIST

1. GUAYANES 2, 1923-SUB. 1+2	16. CAPE SAN JUAN LIGHT HOUSE, 1900
2. CATATA, 1901-SUB. 1+2	17. LUQUILLO CH. (USGS) 1934
3. PASTO VIEJO EASTERN SUGAR ASSN. WH. CON. STACK, 1941	18. PALMER (USGS) 1929-SUB. 1+2
4. HUMACAO PLAYA CH. (USGS) 1934	19. RIO GRANDE CHURCH (USGS) 1934-SUB. 1+2
5. NAGUABO CH. (USGS) 1934	20. SANTA INEZ, 1922-SUB. 1+2
6. COLON (USGS) 1941-SUB. 1+2	
7. LOMA 1941-SUB. 1+2	
8. HONDA 1941-SUB. 1+2	
9. CARRAS 15. LT., 1941	
10. MUNDO, 1926-SUB. 1+2	
11. PINHEIRITA 2, 1941-SUB. 1+2	
12. CAEZA DE FERRO LT., 1923	
13. FENEDO, 1941-SUB. 1+2	
14. CENTRAL FANTARO NORTH STACK, 1941	
15. CAPE, 1901-SUB. 1+2	

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12153 PROJECT NO. PH-6106 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048005 meter)	
				FORWARD	(BACK)
SOUTH, 1941	-	Puerto Rico	135 007.53		
LOMA, 1941	-	Puerto Rico	771 503.24		
			135 467.69		
CANA, 1941	-	Puerto Rico	762 704.39		
			142 957.83		
DON, 1901	-	Puerto Rico	762 211.50		
			131 724.90		
McCONNIE, 1941	-	Puerto Rico	762 870.64		
			138 926.50	NOT PLOTTED	
COLINA, 1941	-	Puerto Rico	765 188.39		
			141 573.76		
ORIENTE, 1941	-	Puerto Rico	760 003.57		
			145 829.78		
DAGUAO, 1941	-	Puerto Rico	766 149.21		
			143 631.53		
VERDE, 1941	-	Puerto Rico	761 411.36		
			142 096.46		
ABRA, 1941	-	Puerto Rico	762 730.67		
			134 339.77		
HONDA, 1941	-	Puerto Rico	762 809.88		
			140 559.30		8B
POINT, 1941	-	Puerto Rico	777 679.82		
			137 113.65		
			779 221.42		
COMPUTED BY R. E. Smith	DATE 3/7/62	CHECKED BY V. P. Cackowski	DATE 3/7/62		

COMPILATION REPORT T-12153PHOTOGRAMMETRIC PLOT REPORT

Page 8

~~Starce bridge was run in the Washington office and the report is submitted with the report for T-12157.~~

31. DELINEATION

The Kelsh plotter was used for delineation. Only the shoreline and offshore details were shown.

The major portion of shoreline - east of longitude $65^{\circ}39'$ - was compiled at 1:5,000 scale on sheets T-12154 and T-12155. These compilations were reduced photographically and transferred by direct tracing to this map manuscript.

Refer to the compilation reports for T-12154 and T-12155 for information concerning the east half of this map.

Field inspection for the west half was done on photograph 61-W-1678. Inspection was satisfactory.

32. CONTROL

See compilation reports for T-12154 and T-12155..

Control points were adequate and well placed for the part of the compilation west of longitude $65^{\circ}09'$.

33. SUPPLEMENTAL DATA

Reductions of 1:5,000 scale compilations 12154 and 12155.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

See compilation reports for T-12154 and T-12155. Shoreline details for the western half were shown in accordance with field inspection. The inspection was adequate.

No low-water line was shown. A shallow line alongshore was shown from office interpretation of the photographs.

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro	April 1962	superseded
Alongshore area revised from field edit. Manuscript complete	November 1962	Superseded
The shoreline bordering Ensenada Honda, and the entrance to it, has been revised from 1965-L photographs during final review.	December 1967	

36. OFFSHORE DETAILS

For a discussion of offshore rocks see compilation report for T-12155. No further comment is needed for the part of this sheet west of longitude 65° 39' nor for the area covered by 1:5,000 scale compilation T-12154.

37. LANDMARKS AND AIDS

Forms 567 for three nonfloating aids, one of which is also an aeronautical aid, were included with the report for T-12154.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions have been made with T-12157 on the east and 12159 on the west. T-12152 lies to the north but there are no shoreline details to junction. Open water is to the south.

40. HORIZONTAL CONTROL

No statement.

46. COMPARISON WITH EXISTING MAPS

Refer to reports for T-12154 and T-12155.

Comparison of shoreline west of longitude 65°09' with USGS quadrangle map NAGUABO, P.R., shows no major differences except a ledge that is discussed under item 49.

47. COMPARISON WITH NAUTICAL CHARTS

Discussed in reports for T-12154 and T-12155. Also, see item 46 above.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

William H. Shearouse
William H. Shearouse
Cartographer (Photo)

APPROVED AND FORWARDED: 25 JUL 1963

V. Ralph Sobieralski
V. Ralph Sobieralski
Tampa District Officer

May 29, 1968

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6106 (Puerto Rico)
T-12153

Bahia Algodones
Cayo Algodones
✓ Ensenada Honda
Carribean Sea → Mar Caribe * See below
Pasaje de Viegues
✓ Playa Blanca
Punta Algodones
✓ Punta Cascajo
Rio Daguao

Approved by:

A. Joseph Wright
A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

* NOTE: The last GNB Decision - 1944 - was
"Carribean Sea". Mar Caribe is
used on Nautical Charts.
SEB

49. NOTES FOR THE HYDROGRAPHER

No photo-hydro or topographic stations were established.

The rock ledge shown on chart 940 at approximate latitude $18^{\circ}11'57''$, longitude $65^{\circ}40'54''$ could not be seen on the black and white or color photographs and should be investigated.

FORM 182 (3-61) 50.		PHOTOGRAMMETRIC OFFICE REVIEW T- 12153		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
1. PROJECTION AND GRIDS <div style="text-align: center;">WHS</div>		2. TITLE <div style="text-align: center;">WHS</div>		3. MANUSCRIPT NUMBERS <div style="text-align: center;">WHS</div>	
4. MANUSCRIPT SIZE <div style="text-align: center;">WHS</div>		5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY <div style="text-align: center;">WHS</div>		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) <div style="text-align: center;">XX</div>	
7. PHOTO HYDRO STATIONS <div style="text-align: center;">XX</div>		8. BENCH MARKS <div style="text-align: center;">XX</div>		9. PLOTTING OF SEXTANT FIXES <div style="text-align: center;">XX</div>	
10. PHOTOGRAMMETRIC PLOT REPORT <div style="text-align: center;">W.O.</div>		11. DETAIL POINTS <div style="text-align: center;">I. I.S.</div>			
12. SHORELINE <div style="text-align: center;">WHS</div>		13. LOW-WATER LINE <div style="text-align: center;">XX</div>		14. ROCKS, SHOALS, ETC. <div style="text-align: center;">WHS</div>	
15. BRIDGES <div style="text-align: center;">XX</div>		16. AIDS TO NAVIGATION <div style="text-align: center;">WHS</div>		17. LANDMARKS <div style="text-align: center;">XX</div>	
18. OTHER ALONGSHORE PHYSICAL FEATURES <div style="text-align: center;">WHS</div>		19. OTHER ALONGSHORE CULTURAL FEATURES <div style="text-align: center;">WHS</div>			
20. WATER FEATURES <div style="text-align: center;">WHS</div>		21. NATURAL GROUND COVER <div style="text-align: center;">XX</div>			
22. PLANETABLE CONTOURS <div style="text-align: center;">XX</div>		23. STEREOSCOPIC INSTRUMENT CONTOURS <div style="text-align: center;">XX</div>			
24. CONTOURS IN GENERAL <div style="text-align: center;">XX</div>		25. SPOT ELEVATIONS <div style="text-align: center;">XX</div>			
26. OTHER PHYSICAL FEATURES <div style="text-align: center;">WHS</div>		27. ROADS <div style="text-align: center;">XX</div>		28. BUILDINGS <div style="text-align: center;">XX</div>	
29. RAILROADS <div style="text-align: center;">XX</div>		30. OTHER CULTURAL FEATURES <div style="text-align: center;">WHS</div>			
31. BOUNDARY LINES <div style="text-align: center;">XX</div>		32. PUBLIC LAND LINES <div style="text-align: center;">XX</div>			
33. GEOGRAPHIC NAMES <div style="text-align: center;">WHS</div>		34. JUNCTIONS <div style="text-align: center;">WHS</div>			
35. LEGIBILITY OF THE MANUSCRIPT <div style="text-align: center;">WHS</div>		36. DISCREPANCY OVERLAY <div style="text-align: center;">XX</div>		37. DESCRIPTIVE REPORT <div style="text-align: center;">MMS</div>	
38. FIELD INSPECTION PHOTOGRAPHS <div style="text-align: center;">WHS</div>		39. FORMS <div style="text-align: center;">WHS</div>			
SIGNATURE OF REVIEWER <i>William H. Shearouse</i> William H. Shearouse		SIGNATURE OF SUPERVISOR REVIEW SECTION OR UNIT <i>Milton M. Slawney</i> Milton M. Slawney			
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 COMPIER <i>Robert E. Smith Jr.</i>			SIGNATURE OF SUPERVISOR <i>M. M. Slawney</i>		

15.

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 WIC.
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.

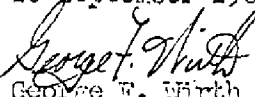
T-12156 - Rock height revisions in the following areas: EVA (2), KEN, and CRY.
Photos - 61W1584 and 1585.

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

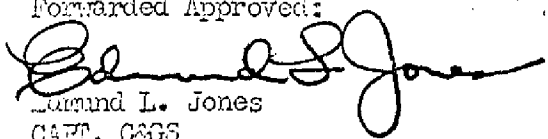
T-12157 - None

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 F. Wirth
LT, C&GS

Forwarded Approved:


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

REVIEW REPORT T-12153
SHORELINE
December 1967

61. GENERAL STATEMENT:

See Summary on page 6 of Descriptive Report.

The Ensenada Honda area was revised during final review of 1:5,000 scale maps T-12154 and T-12155 from 1965 color photographs 65-L-1330, 1331, 1335, and 1336; these maps were then reduced and appropriate changes were made during final review of 1:10,000 scale map T-12153, which includes T-12154 and T-12155.

An ozalid Comparison Print showing the differences noted in Items 62 and 65 is enclosed with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No. 6873; 1:4,800; August 1941
No. 6877; 1:4,800; October 1941
No. 6877b; 1:4,800; October 1941
No. 6878; 1:4,800; October 1941
No. 6879; 1:4,800; November 1941
No. 6881; 1:4,800; December 1941
No. 6882; 1:4,800; December 1941

The details from these registered surveys are on the Comparison Print in blue.

The shoreline of Ensenada Honda has been changed by construction and filling.

West of Ensenada Honda the largest change in the mean high water line is about 40 meters at the western limits of this survey. The mangrove shoreline also shows extensive changes in this area.

Reg. Survey 6877b showed many rocks in the area south of Punta Cascajo, lat. $18^{\circ} 12.5'$, long. $65^{\circ} 37.7'$, that could not be identified on the photographs. Seven rock elevations comprised the entire field edit for this survey; no mention was made of the rocks on 6877b that do not appear on T-12153.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

NAGUOBO, P.R.; U.S.G.S. quad.; 1:20,000; 1943, revised 1957

Details from the quadrangle are on the Comparison Print in brown. The shoreline changes in Ensenada Honda have taken place since 1962, and the quadrangle is obsolete in this area.

There is fair agreement elsewhere, excepting the mangrove island at lat. $18^{\circ} 12.0'$, long. $65^{\circ} 41.0'$, which is not on the quadrangle.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

BOAT SHEET EX 5-3-65A and B (H-8862); 1:5,000; 1965
BOAT SHEET EX10-2-62A and C (H-8638); 1:10,000; 1962

Boat Sheet EX 5-3-65A and B details were too faint and smudged for comparison.

The differing details from EX10-2-62C are on the Comparison Print in green.

The boat sheet gives data on three rocks near latitude $18^{\circ} 12.13'$, longitude $65^{\circ} 38.56'$; and on one rock near latitude $18^{\circ} 12.10'$, longitude $65^{\circ} 38.8'$. The latter rock is on Chart 922 as awash, the boat sheet states "covers 2 ft. at 1448, 5/31/62", where the tide stage (from predicted tides) is near low water. None of these rocks is definitely identifiable on the photographs.

The boat sheet is obscure in the area of latitude $18^{\circ} 12.02'$, longitude $65^{\circ} 38.47'$ where Chart 922 shows an island about 50 meters long. (See para. 3 Item 65.)

65. COMPARISON WITH NAUTICAL CHARTS:

Chart 922; 1:10,000; 6th edition, October 11, 1965
Chart 940; 1:25,000; 3rd edition, July 25, 1966

Chart differences are on the Comparison Print in red:

1. The charts show "pipes", a "wreck", etc. near latitude $18^{\circ} 14.15'$, longitude $65^{\circ} 37.7'$ that are not on this survey. These were not noted by the field inspector or the field editor; and they are not positively identifiable on the photographs. Photograph 65-L-1330 shows something in the vicinity of the "wreck" but its positive identification is not possible from office interpretation.

2. This survey shows 9 piers from photograph 65-L-1330 in the vicinity of latitude $18^{\circ} 14.2'$, longitude $65^{\circ} 37.6'$, whereas the chart 922, the same scale as this survey, shows only 5 piers.

3. Delineation of rock islets near latitude $18^{\circ} 12.02'$, longitude $65^{\circ} 38.47'$ appears correct on T-12153 after detailed examination of photographs 61-1559 and 1560. Photo 1559 and 1560 were taken at about 1.0 ft. above MLW (from predicted tides) and 1559 clearly shows water over much of the area shown as an island on Chart 922. The rocks at latitude $18^{\circ} 12.05'$, longitude $65^{\circ} 38.72'$ also appear to be correct on T-12153.

4. Rocks awash on Chart 922 that do not appear on this survey are:

latitude $18^{\circ} 12.37'$	Longitude $65^{\circ} 37.62'$
" $18^{\circ} 12.27'$	" $65^{\circ} 37.86'$
" $18^{\circ} 12.1'$	" $65^{\circ} 38.8'$
" $18^{\circ} 12.13'$	" $65^{\circ} 38.56'$

No notes pertaining to these rocks were made by the field inspector or the field editor. Photographs 61-W-1559, 61-W-1560, 65-L-1337 and 65-L-1338 were examined but no positive identification could be made.

5. The chart shows other rocks awash that are near the positions from this survey; it is assumed that these cases are the result of slightly different positions for the same rock.

6. The chart shows bare rocks, inshore, that are not on this survey near:

latitude $18^{\circ} 12.14'$	Longitude $65^{\circ} 37.94'$
" $18^{\circ} 12.12'$	" $65^{\circ} 38.05'$
" $18^{\circ} 12.13'$	" $65^{\circ} 38.15'$

No notes were offered by the field inspector or the field editor, and they could not be identified on photographs 61-W-1559, 1560, 65-L-1337 and 1338.

7. There are some shoreline differences to 50 meters, where the 1965 photographs show filling and dredging.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

M. M. Slavney
M. M. Slavney

Approved by:

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

Approved by:

Charles L. Luman
Chief, Cartographic Branch
Photogrammetric 2743

John O. Boyer
Chief, Chart Division

J. Ralph Sobieski
Chief, Photogrammetry Division

JUN 28 1968

Chief, Operations Division

NOTES TO VERIFIER
T-12153 Project PH-6106
BOAT SHEET NOS. 5-3-65A & B(H-8862) & 10-2-62A(H-8638)

Please note Items 62, 64, and 65 of Final Review Report for T-12153,
and the Comparison Print enclosed with the original of this report.

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

[illegible]