

ORIGINAL

12156

12156

12156

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE
Field No.	Office No. T-12156
LOCALITY	
State	PUERTO RICO
General locality	EAST COAST
Locality	ISLA CABRAS
1958 - 1962-65 1965	
CHIEF OF PARTY	
M. L. Olivier, Photo Party 708	
V. Ralph Sobieralski, Tampa District Office	
LIBRARY & ARCHIVES	
DATE	1 JUL 1968

USCOMM-OC 5087

DESCRIPTIVE REPORT - DATA RECORD

T-12156

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 & Office - Aug. 30, 1961 Amendment: " " - Jan. 15, 1962 * <i>* Interior planimetry restricted to those features useful to photo hydro support. 8613</i>		
METHOD OF COMPILATION (III): Kelsh plotter		
MANUSCRIPT SCALE (III): 1:5,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:3,000	
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 LOW WATER 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): CAMP 1941		
LAT.: 18°13'55.090" (1693.7m.)	LONG.: 65°36'40.397" (1186.8m.)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): y = 145,387.77 Ft. x = 785,273.86 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 Date taken from CSI card
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of photography Oct. 1961 <i>Mar. 1965</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 Feb. 1962
CONTROL CHECKED BY (III): I. I. Saperstein		DATE Feb. 1962
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Washington Office		DATE Jan. 1962
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY I. I. Saperstein	DATE Feb. 1962
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): I. I. Saperstein " " Reviewed by: M. M. Slavney		DATE Mar. 1962 Mar. 1962
SCRIBING BY (III): R. Purvis " Reviewed by: W. H. Shearouse		DATE May 1963 May 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): M. M. Slavney		DATE May 1963
REMARKS: <i>Field Edit by Lt. G.F. Wirth in 1962 see page 18.</i>		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild "W" and "S"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
58-S-2580 thru 2584	1958	1215	1:10,000	* (COLOR PHOTOS.)
59-S-3922, 3923, 3942	4-18-59	?	"	RATIO F. INSP. PRINTS
61-W-1583 thru 1585	10-19-61	1457	1:15,000	(Diapositives)
61-W-1787 thru 1790	10-20-61	1647	1:10,000	(COLOR PHOTOS)
65-L-1330 & 1331	3-5-65	1535	1:5000 ratio from 1:15,000 *	

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: *No subordinate station in area. Chart 922 shows range of tide in Ensenada Honda as 0.7 ft.			
SUBORDINATE STATION:			
SUBORDINATE STATION:			

ATLANTIC MARINE CENTER
WASHINGTON OFFICE REVIEW BY (IV):W. W. Slawny
N. M. SLAWNY

DATE:

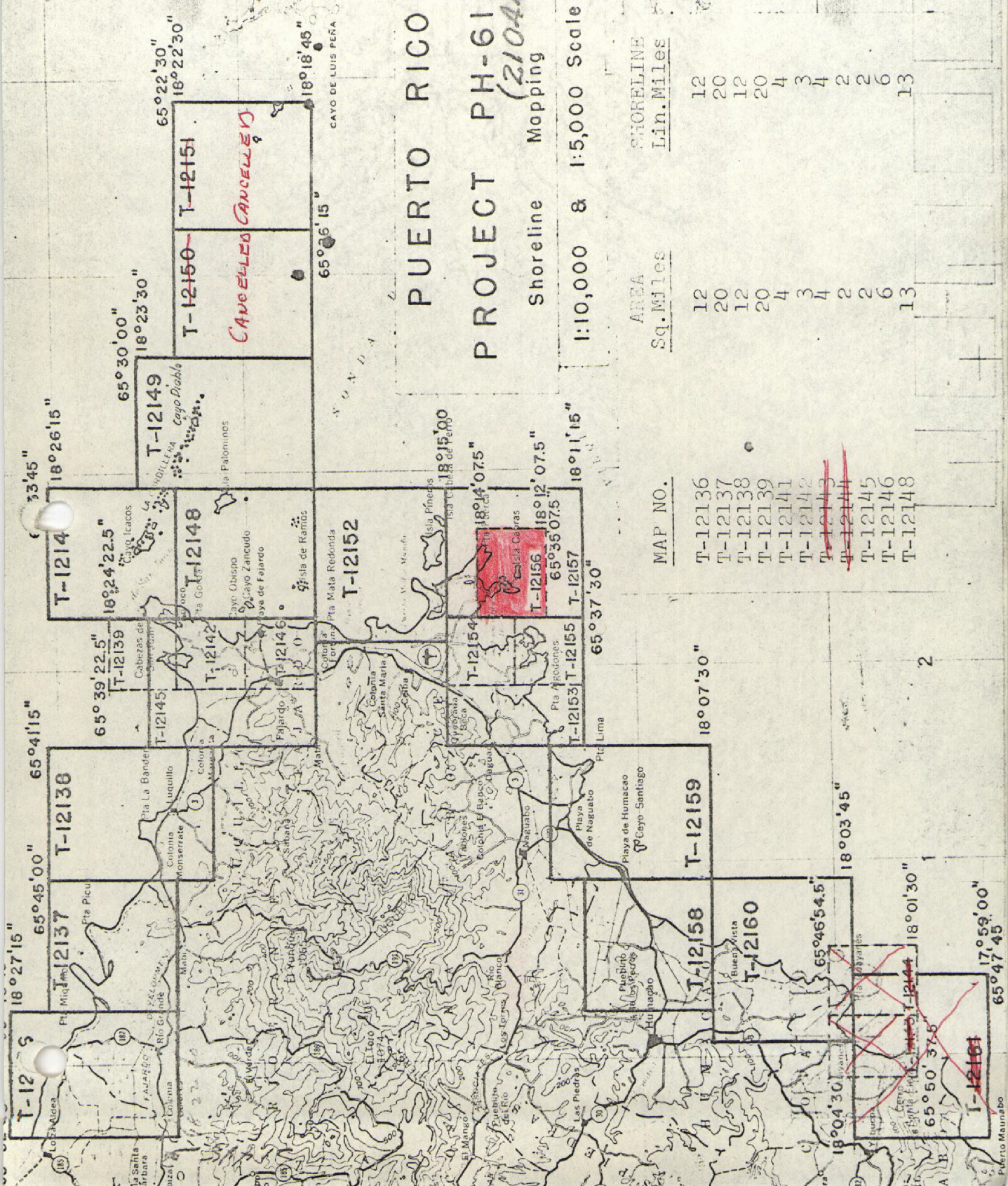
Nov. 1967

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	10	RECOVERED:	4	IDENTIFIED:	1
NUMBER OF BM(S) SEARCHED FOR (II):	2	RECOVERED:	0	IDENTIFIED:	0
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):	0				
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):	4 (one north of manuscript)				

REMARKS:



PUERTO RICO

PROJECT PH-6106 (21042)

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

AREA
Sq. Miles

12	12
20	20
12	12
20	20
4	4
3	3
4	4
2	2
6	6
13	13

MAP NO.

T-12136
T-12137
T-12138
T-12139
T-12141
T-12142
T-12143
T-12144
T-12145
T-12146
T-12148

6.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12156

Shoreline manuscript T-12156 is one of eight 1:5,000 scale maps in Ph-6106 Puerto Rico, which also contains sixteen 1:10,000 scale maps. 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-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. 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 from 1:30,000 panchromatic photographs made with the "S" camera April 15, 1959. Compilation was with Kelsh Plotter from 1:15,000 photographs made with the "W" camera on October 19, 1961. Color prints at 1:10,000, taken October 20, 1961 with the "W" camera, were furnished for reference in compilation; they were not available for final review. The stereo-bridge was run and adjusted to field identified control in the Washington Office. Ratio prints, at 1:5,000 scale were processed, and provided for photo-hydro support.

Field work preceding compilation consisted of control identification and field inspection was provided for compilation. The manuscript was field edit in conjunction with photo-hydro support.

Revision of the area bordering Ensenada Honda was done during final review from 1:15,000 scale March 5, 1965 color photographs, because extensive changes were made by construction after the 1962 field edit.

The compilation manuscript was a vinylite sheet 2 minutes, 00 seconds in latitude, and 2 minutes 22.5 seconds in longitude. The smooth manuscript was on cronaflex for registry and record after final review.

- 7 -

2. AREAL FIELD INSPECTION

T-12139, T-12142, 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 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.

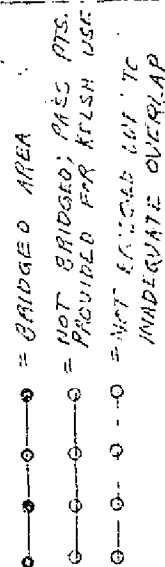
Submitted by:

R. E. Fuechsel
R. E. Fuechsel

Approved:

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

FEB. 1962

8A.

~~STRIP 2 STRIP 2~~

Jan 29, 1962

during the bridging of strip 3, points were established to facilitate the block setting of various models ~~to~~ to compile the large-scale sheets T-12154, 12155 + 12156. These models are at scale 1:15,000, and are numbered as follows: 61 W 1559-60; 1560-61; 1566-67; 1575-76; 1576-77; 1583-~~84~~ 84; 1584-85. These models are at ~~the same scale as~~ a scale twice as large as that of the scale of the photos used in strips 2 + 3. Therefore, the models mentioned above should be used in lieu of strips 2 + 3 for the large-scale compilation.

Do not use Δ PINERITA 2, 1941-S.S. 2. This sta. had been designated as a foot image point at the time of bridging, and the number and geographic location of other control in strip 3 is such that this point may be entirely disregarded. All other control in strip 3 held very well in bridging.

Note points A, B, C, D, & E, described on back of photo 59 S 3921. These should be positioned during compilation phase.

COMPILATION REPORT T-12156

PHOTOGRAMMETRIC PLOT REPORT

The stereo bridge was run in the Washington Office in January 1962. ~~No bridging report has been received at this time, but~~ Notes on Puerto Rico strip 3 were submitted.

Recd. by final review, sup pgs 8 & 8A.

31. DELINEATION

The Kelsh plotter was used for delineation. The field inspection was generally adequate. ~~No Field Inspection Report was received.~~ It is noted that the field inspection was done on the April 1959 photographs while the actual compilation was accomplished using October 1961 photographs.

Recd. with final review data, sup pgs 7 and 7A.

The interior detail has not been shown, according ⁱⁿ ~~to~~ ^{with} the amendment to instructions dated January 15, 1962.

The color photographs were used as an aid in delineating rocks and shallow areas. No color photography was available for the southeast end of Punta Puerca.

32. CONTROL

The density and placement of bridge points was adequate. It will be noted that the bridge was run using 1:30,000 diapositives so that some points appeared quite large when viewed using the 1:15,000 diapositives.

See "Notes on Puerto Rico strip 3."

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

None.

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 were delineated by office interpretation of the photographs.

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro	Mar. 1962	Superseded
Alongshore area revised from field edit. Manuscript complete	Nov. 1962	<i>Superseded</i>
<i>Ensenada Honda shoreline revised from 1965 color photos CS-L-1330,31 during final review</i>	<i>Nov. 1967</i>	

36. OFFSHORE DETAILS

Rocks and rock ledges that could be seen have been shown.

37. LANDMARKS AND AIDS

One aid, and one landmark north of sheet, have been shown. One landmark has been noted for deletion. Forms 567 are being submitted for each.

38. CONTROL FOR FUTURE SURVEYS

Four photo-hydro stations have been located (one north of manuscript) and are listed under item 49.

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

39. JUNCTIONS

Junctions have been made with T-12154 to the northwest; T-12155 to the southwest (water); T-12157 (1:10,000) to the north; water area to the east and south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS PUNTA PUERCA quadrangle, scale 1:20,000, edition of 1957. The comparison is favorable.

Comparison has been made with U. S. Navy Hydrographic Office topographic map No. 7 - Roosevelt Roads Naval Station, scale 1:48,000, dated 1959. The comparison is good.

Comparison has also been made with USC&GS topographic survey nos. 6872 and 6873, scale 1:4,800, edition of 1941. These surveys are obsolete for comparison purposes.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with chart No. 922, scale 1:10,000, edition of March 6, 1944, revised February 4, 1961. The comparison is favorable except that the wrecks about 1700 yards northeast of Cayo Cabritas can not be seen on the photographs. Numerous small islets shown on the chart at approximate latitude $18^{\circ}13'55''$, longitude $65^{\circ}35'33''$ do not appear on the photographs.

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-12156

Bahia de Puerca

Cabra de Tierra

Cayo Cabritas

Ensenada Honda

Isla Cabras

Pasaje de Vieques

Punta Puerca

* ~~Radas Roosevelt~~

* ~~Roosevelt Roads Naval Reservation~~

~~Sonda de Vieques~~ (*Beyond map limits*)

** Reservation not delineated; Names omitted from Chart 922 for security(?).*

Approved by:

A. J. Wraight

A. J. Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

O. K. 6-3-68-JP

49. NOTES FOR THE HYDROGRAPHER

Four photo-hydro stations were established:

111 (NW Gable, ho. most NW of group) north of manuscript.

112 (N Gable, small ho.)

114 (Chimney)

115 (E vent of 5 on bldg.)

A wreck, about 1700 yards northeast of Cayo Cabritas shown on chart 922 could not be seen on the photographs and should be investigated by the hydrographer.

Areas outlined with a dashed line and labeled subm ledge and ledge should be investigated by the hydrographer.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE REVISED
~~TO BE CANCELLED~~
~~TO BE DELETED~~

STRIKE OUT TWO

March 5 19 62

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

The positions given have been checked after listing by

I. I. Superstein

V. Ralph Sobotnik *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**

NONFLOATING AIDS/OR LANDMARKS FOR CHARTS

Tampa District Office March 5 1962

The positions given have been checked after listing by

I. I. Saperstein

V. Reip Sobieralski *Chief of Party.*

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

USCOMM-DC 27126

NOTE: PAGE 15 NOW INCLUDED IN THE
DESC. REPORT FOR T-12157

FORM 182 (3-61)		PHOTOGRAMMETRIC OFFICE REVIEW		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
50		T- 12156			
1. PROJECTION AND GRIDS MMS		2. TITLE MMS		3. MANUSCRIPT NUMBERS MMS	
		4a. Classification label Unclassified		4. MANUSCRIPT SIZE MMS	
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY MMS		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) MMS		
	7. PHOTO HYDRO STATIONS MMS	8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT XX	
	11. DETAIL POINTS RES				
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE MMS	13. LOW-WATER LINE MMS	14. ROCKS, SHOALS, ETC. MMS	15. BRIDGES XX	
	16. AIDS TO NAVIGATION MMS	17. LANDMARKS MMS	18. OTHER ALONGSHORE PHYSICAL FEATURES MMS		
	19. OTHER ALONGSHORE CULTURAL FEATURES MMS				
PHYSICAL FEATURES	20. WATER FEATURES MMS		21. NATURAL GROUND COVER XX		
	22. PLANETABLE CONTOURS XX		23. STEREOSCOPIC INSTRUMENT CONTOURS XX		
	24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX		
	26. OTHER PHYSICAL FEATURES MMS				
CULTURAL FEATURES	27. ROADS XX	28. BUILDINGS XX	29. RAILROADS XX		
	30. OTHER CULTURAL FEATURES MMS				
BOUNDARIES	31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX		
MISCEL- LANEOUS	33. GEOGRAPHIC NAMES MMS			34. JUNCTIONS MMS	
	35. LEGIBILITY OF THE MANUSCRIPT MMS	36. DISCREPANCY OVERLAY XX		37. DESCRIPTIVE REPORT MMS	
	38. FIELD INSPECTION PHOTOGRAPHS MMS		39. FORMS MMS		
	SIGNATURE OF REVIEWER M. M. Slaveney		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT William A. Resure		
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 Jung J. Sapientem			SIGNATURE OF SUPERVISOR William A. Resure		

USE REVERSE SIDE FOR REMARKS

USCMM-DC 25353-P61

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, LCG, 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 DUN to ABE. Rock height revisions in the following areas: HUE, GEO, and WEG.

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), KEE, and CRY.

Photos - 61W1584 and 1585.

T-12154 - Pier revision at OHL.

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
George F. Wirth
LT, C&GS

Forwarded Approved:

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

REVIEW REPORT T-12156
SHORELINE
NOVEMBER 1967

61. GENERAL STATEMENT:

See Summary accompanying Descriptive Report (page 6).

Shoreline revisions were made to the map in the area bordering Ensenada Honda during final review, using color photographs 65-L-1330 and 1331. Extensive construction, dredging, and filling after the 1962 field edit were responsible for the changes.

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:

Registered Topographic Survey 6872; 1:4,800; August 1941

Registered Topographic Survey 6873; 1:4,800; August 1941

The differences in shoreline, rocks, ledges, etc. from these registered surveys are on the Comparison Print in blue.

The area north of latitude 18° 13' bordering Ensenada Honda has been changed extensively by construction, dredging and filling between 1962 and 1965.

The areas bordering Ensenada Honda, and Bahia De Puerca as well as the causeway to Isla Cabras have been changed by filling and construction since the 1941 surveys were made.

The remainder is in fair agreement with the exception of a 30 meter shoreline difference at Punta Puerca.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

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

Detailed comparison was not made because the quadrangle would require a 4x enlargement. With the exception of areas affected by construction, the general comparison seems favorable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Boat Sheet EX-5-3-65A & B (H-8862); 1:5,000; 1965

Boat Sheet EX-10-3-62 (H-8811); 1:10,000; 1962

The areas covered by these boat sheets, and notes pertaining to them are on the Comparison Print in green.

Shoreline and other data on Boat Sheets EX-5-3-65A & B were too faint and smudged for comparison.

Boat Sheet EX-10-3-62 shows 6 "rocks awash" that are not on this survey. They were not noted by the field inspector or the field editor, and though photographs 61-W-1680, 1681 hint at 5 of them, no positive office identification could be made of these:

Latitude 18° 14.1 ',	Longitude 65° 35.8 '
" 18° 13.99',	" 65° 35.68'
" 18° 13.94',	" 65° 35.51'
" 18° 13.73',	" 65° 35.35'
" 18° 13.62',	" 65° 35.56'

There was no hint of the rock at latitude 18° 14.05', longitude 65° 35.75' on the photographs.

Boat Sheet EX-10-3-62 shows a "rock awash" at latitude 18° 13.62', longitude 65° 35.65' which the field editor had a leader to and noted "bare 4.0 ft., 14.8 - 45°W, 19 June 1962" on the cronaflex "T" sheet used in hydro-support.

65. COMPARISON WITH NAUTICAL CHARTS:

Chart 922; 1:10,000; 6th Edition, October 11, 1965

The shoreline and offshore details from Chart 922 that differ with this survey are shown on the Comparison Print in red. The Comparison Print also carries notes of efforts made to resolve the differences. The field inspection gave generalized notes, and the field edit was confined to checking the height of six rocks.

1- The chart shows a rock awash in an offshore exposed position at latitude 18° 12.72', longitude 65° 36.72'. Color photographs 65-L-1332 and 1333 indicate there may be some submerged rocks or coral in the area, but no evidence of a "rock awash" is discernible.

2- Delineation of rocks, ledges, etc. have been checked in the following areas using the available photographs, and appear to be correct on T-12156:

Around Cayo Cabritas, 18° 13.35', 65° 36.1 '			
At latitude	18° 12.9 '	longitude	65° 36.75'
" "	18° 12.9 '	"	65° 36.63'
" "	18° 12.93'	"	65° 36.16'
" "	18° 13.38'	"	65° 36.32'
" "	18° 13.7 '	"	65° 35.5 '

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 made in the field.

Reviewed by:

M. M. Slavney
M. M. Slavney

Approved by:

J. Bull
J. Bull, RADM, USESSA
Director, Atlantic Marine Center

Approved by:

Charles A. Kenna
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John A. Boyer
Chief, Chart Division

J. Ralph Sobieralski
Chief, Photogrammetry Division

JUL 1 1968

Chief, Operations Division

NOTES TO VERIFIER
T-12156 Project PH-6106
BOAT SHEET NO. EX-5-3-65 (H-8862)

Please note the paragraph in Item 61 pertaining to delineation changes from 1965 photographs during final review, and the paragraphs in Items 65.

