

# 11887

ORIG.

903

Diag. Cht. No. 903.

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
<b>DESCRIPTIVE REPORT</b>	
Type of Survey	SHORELINE
Field No.	Office No. T-11887
<b>LOCALITY</b>	
State	Puerto Rico
General locality	San Juan to Loiza Alder
Locality	Bay View
<u>19<sup>64</sup>-65</u>	
<b>CHIEF OF PARTY</b> J. Bull, Director, Atlantic Marine Center	
<b>LIBRARY &amp; ARCHIVES</b>	
DATE	March 1968

USCOMM-DC 5087

# 11887

2080

2/17/04-30-

## DESCRIPTIVE REPORT - DATA RECORD

T-11887

PROJECT NO. (II): 21415 PH-6403		
FIELD OFFICE (III): Atlantic Marine Center	CHIEF OF PARTY OFFICER-IN-CHARGE J. Bull, Director, Atlantic Marine Center	
INSTRUCTIONS DATED (II) (III): September 22, 1964 Field November 17, 1964 Office		
METHOD OF COMPILATION (III): Kelsh plotter		
MANUSCRIPT SCALE (III): 1:5,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:3,000 pantographed to 1:5,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III): Puerto Rico	VERTICAL DATUM (III): MHW <del>MEAN SEA LEVEL</del> 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): Catano Rear Range Light, 1939		
LAT.: 18° 26' 44".283 (1,361.4)	LONG.: 66° 07' 55".024 (1,614.6)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): y = 222,418.47 ft.      x = 604,452.61 ft.	STATE: Puerto Rico	ZONE:
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.		

FORM C&GS-181b (-66)		U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT - DATA RECORD			
FIELD INSPECTION BY (III):		DATE:	
None			
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):			
Air photo compilation -- Date of photographs Feb. 17, 1964			
PROJECTION AND GRIDS RULED BY (IV):		DATE	
A. E. Roundtree		Oct., 1964	
PROJECTION AND GRIDS CHECKED BY (IV):		DATE	
P. Hawkins		Oct., 1964	
CONTROL PLOTTED BY (III):		DATE:	
K. Boyle		Nov. 1964	
CONTROL CHECKED BY (III):		DATE	
H. Cordell		Nov, 1964	
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE	
H. P. Eichert (WSC)		Nov. 1964	
STEREOSCOPIC INSTRUMENT COMPILATION (III):		DATE	
PLANIMETRY		R. J. Pate	
		Dec. 1964	
CONTOURS		DATE	
Inapplicable			
MANUSCRIPT DELINEATED BY (III):		DATE	
R. E. Smith		Dec. 1964	
SCRIBING BY (III):		DATE	
B. Barge		March 1965	
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE	
R. E. Smith & R. J. Pate		Jan. 1966	
REMARKS: <i>Field Edit : D. Rich, MAR. 1965</i>			

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64 W 3210 3211	Feb. 17, 1964 "	0327	1:15,000 "	0.1 above MLW "
64 W 3242 3243 3244	" " "		" " "	" " "

TIDE (III) Predicted

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	San Juan, Puerto Rico		1.1	1.3
SUBORDINATE STATION:	None			
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV):	<i>M. M. Shanley</i>	DATE:	<i>July 1966</i>	
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	?	RECOVERED:	1	
NUMBER OF BM(S) SEARCHED FOR (II):	None	RECOVERED:	1	
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):	None			
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):	None			

REMARKS:

COMPILATION RECORD

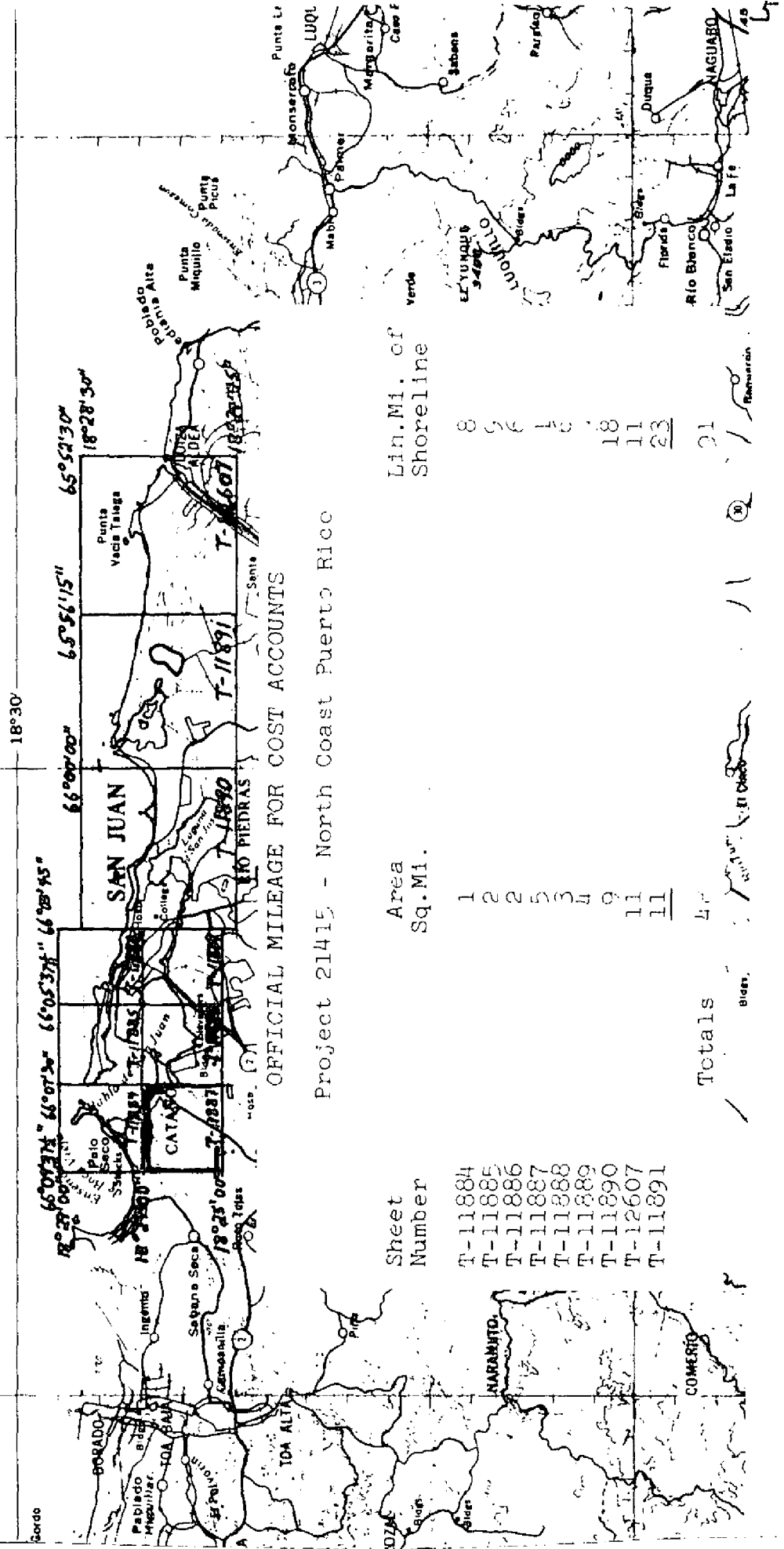
COMPLETION DATE

REMARKS

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	Jan . 1965	
Alongshore area revised from field edit	Jan. 1966	

# PROJECT 21415 SHORELINE MAPPING

PUERTO RICO  
SAN JUAN TO LOIZA ALDEA  
1:5,000 & 1:10,000 SCALES



OFFICIAL MILEAGE FOR COST ACCOUNTS

Project 21415 - North Coast Puerto Rico

Lin. Mi. of  
Shoreline

Area  
Sq. Mi.

Sheet Number	Area Sq. Mi.	Lin. Mi. of Shoreline
T-11884	1	8
T-11885	2	2
T-11886	2	6
T-11887	5	1
T-11888	3	6
T-11889	4	18
T-11890	9	11
T-12607	11	23
T-11891	11	21
<b>Totals</b>	<b>48</b>	<b>111</b>

Remarques

11

11

11

11

11

11

11

11

11

6.

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11887

Shoreline manuscript T-11887 is one of six 1:5,000 scale manuscripts in Ph-6403 (San Juan to Loiza Aldea, Puerto Rico), which also contains three 1:10,000 scale manuscripts. The sketch on page 5 of this report shows the position of this manuscript in the project.

This is a stereo-instrument project in advance of hydrographic surveys of the area. 1:15,000 scale and 1:30,000 scale panchromatic photographs were taken with the W camera; which also was used for 1:10,000 scale and 1:15,000 scale color photographs. All the photographs were taken on February 17, 1964. 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 1:5,000 scale were processed, and provided for photo-hydro support.

Field work preceding compilation consisted of control identification only; no inspection was provided for compilation. The manuscript was field edited in conjunction with photo-hydro support.

The compilation manuscript was a vinylite sheet 2 minutes, 00 seconds in latitude, and 2 minutes 7½ seconds in longitude. The smooth manuscript was on cronaflex for review. One cronar positive and one cronar negative are furnished for registry and record after final review.

## FIELD INSPECTION REPORT

There was no field inspection prior to compilation.





COMPILATION REPORT  
T-11887

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11884

31. DELINEATION

Compilation was done by the Kelsh plotter. Color photography was used as an aid in delineation of rocks and other offshore features.

There was no field inspection.

32. CONTROL

See photogrammetric plot report.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Inapplicable

35. SHORELINE AND ALONGSHORE DETAILS

There was no shoreline inspection.

Shallow areas, breakers and foul areas were delineated from office interpretation. No low water line was shown.

36. OFFSHORE DETAILS

See Item 49.

37. LANDMARKS AND AIDS

These are to be ascertained during the hydrographic survey.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions made with T-11884 to the north and T-11889 to the east.

No contemporary survey to the south or west.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to photogrammetric plot report. Vertical control is inapplicable to this project.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with Quadrangle BAYAMON, PUERTO RICO, scale 1:20,000 dated 1957. Changes noted were to be expected due to passage of time.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with chart No. 908 scale 1:10,000 revised Nov. 19, 1962.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Approved and Forwarded:

*A. Santillan*  
A. Santillan  
Cartographic Aid

*J. Bull*  
J. Bull  
Director, Atlantic Marine Center

48. GEOGRAPHIC NAME LIST

BAHIA DE SAN JUAN

BAY VIEW

CANO AGUAS FRIAS

CATANO

CIENGA DE LAS CUCHARILLAS

PALMAS ← *FUERTES*

RIO DE BAYAMON

GEOGRAPHIC NAMES  
Ph 21415 (Puerto Rico)

T-11887 (shoreline)

*BAHIA DE SAN JUAN*

Bay View ✓

Cano Aguas Frias ✓

Catano ✓

Cienaga de las Cucharillas ✓

Fuertes

Municipio de Bayamon *Not used, boundary not delineated*

Municipio de Catano " " " "

Municipio de Guaynabo " " " "

Palmas ✓

Pueblo Viejo *outside delineation limits*

Quebrado de las Lajas " " "

Quebrado Diego " " "

Rio de Bayamon ✓

Terrenos Publicos *Not delineated*

*Bahia De San Juan* ✓

*A. J. Wraight*  
A. J. Wraight  
Geographic Names

T - 11887

49. NOTES FOR THE HYDROGRAPHER

Landmarks, aids to navigation and azimuths of lights, and daybeacons have not been shown and will have to be furnished by the hydrographer. See Project Instructions dated September 22, 1964, par. 6.06.

CATANO REAR RANGE LIGHT has been plotted and was held during compilation.

Features believed to be of landmark value have been shown, but their visual or navigational value should be verified.

A discrepancy exists with notes for verification to the hydrographer and/or field editor is being forwarded with this data.

C&GS FORM 1002 (11-13-61)		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
<b>PHOTOGRAMMETRIC OFFICE REVIEW</b> T-10363 T-11887			
1. PROJECTION AND GRIDS RJP	2. TITLE RJP	3. MANUSCRIPT NUMBERS RJP	4. MANUSCRIPT SIZE RJP
<b>CONTROL STATIONS</b>			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RJP	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT BRIDGE (WO)	11. DETAIL POINTS <del>XX</del> Kelsh
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
12. SHORELINE RES	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. RES	15. BRIDGES XX
16. AIDS TO NAVIGATION XX	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES RES	19. OTHER ALONGSHORE CULTURAL FEATURES RES
<b>PHYSICAL FEATURES</b>			
20. WATER FEATURES RES		21. NATURAL GROUND COVER RJP	22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES RJP
<b>CULTURAL FEATURES</b>			
27. ROADS RJP	28. BUILDINGS RJP	29. RAILROADS XX	30. OTHER CULTURAL FEATURES RJP
<b>BOUNDARIES</b>			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
<b>MISCELLANEOUS</b>			
33. GEOGRAPHIC NAMES RJP		34. JUNCTIONS RJP	35. LEGIBILITY OF THE MANUSCRIPT RJP
36. DISCREPANCY OVERLAY XX	37. DESCRIPTIVE REPORT RJP	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS RJP
40. REVIEWER RJP <i>R. J. Bate</i>		SUPERVISOR, REVIEW SECTION OR UNIT ACR <i>Albert C. Rauch, Jr.</i>	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER RJP <i>R. J. Bate</i>		SUPERVISOR ACR <i>Albert C. Rauch, Jr.</i>	
43. REMARKS			

18 67  
30  
41  
47

TIDE COMPLETION

PROJECT NO. Ph-21415 T. 11887

Spring 1.3  
Mean range 1.1

Time and date of exposure 1527 Feb 17, 1934 Reference station San Juan Puerto Rico

Date of field inspection Subordinate station Ratio of ranges

High tide	Time		Height	Height x Ratio of ranges	Time
	h.	m.			
High tide	11	37	1.0	1.0	11 37
Low tide	18	07	-0.4	-0.4	
Duration of rise or fall	06 30			1.4	11 37

Time H. T. or L. T. Required time Interval	h. m.	Height feet	H. T. or L. T. Tabular correction Stage of tide above MLW	feet	Feature bares Stage of tide above MLW Feature above MLW	feet	Photo. No.
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval			Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

Computed by Salmi, Jan Checked by Boyle



TIDE COMPLETION

PROJECT NO. Ph-21059 T. 12297

Time and date of exposure 0805 Sept. 1, 1962

Reference station CHARLESTON, South Carolina Mean range 5.1

Date of field inspection Feb. 64

Subordinate station MYRTLE BEACH, South Carolina Ratio of ranges 6.0

	Time		Height x Ratio of ranges	Height feet	Time		Low tide at Ref. Sta.	Time difference	Corrected time at Subordinate station	Time	
	h.	m.			h.	m.				h.	m.
High tide	08	32	5.2	5.2	09	09	08	59	08	59	
Low tide	02	26	0.2	0.2	-	37		-33			
Duration of rise or fall	06	06	5.0		08	32			12	26	

	h.	m.	Ht. H. T. or L. T.	Tabular correction	Stage of tide above MLW	Height x Ratio of ranges	Height feet	Ht. H. T. or L. T.	Tabular correction	Stage of tide above MLW	Time H. T. or L. T.	Required time Interval	Time H. T. or L. T.	Required time Interval	Time H. T. or L. T.	Required time Interval	Time H. T. or L. T.	Required time Interval	Time H. T. or L. T.	Required time Interval	feet	Photo. No.	
Time H. T. or L. T.	08	32	Ht. H. T. or L. T.				5.2																
Required time Interval	08	05	Tabular correction	0.1			0.1															6251069A	
Time H. T. or L. T.	00	27	Stage of tide above MLW	5.1			5.1																
Required time Interval			Ht. H. T. or L. T.																				
Time H. T. or L. T.			Tabular correction																				
Required time Interval			Stage of tide above MLW																				
Time H. T. or L. T.			Ht. H. T. or L. T.																				
Required time Interval			Tabular correction																				
Time H. T. or L. T.			Stage of tide above MLW																				
Required time Interval			Ht. H. T. or L. T.																				
Time H. T. or L. T.			Tabular correction																				
Required time Interval			Stage of tide above MLW																				
Time H. T. or L. T.			Ht. H. T. or L. T.																				
Required time Interval			Tabular correction																				
Time H. T. or L. T.			Stage of tide above MLW																				
Required time Interval			Ht. H. T. or L. T.																				
Time H. T. or L. T.			Tabular correction																				
Required time Interval			Stage of tide above MLW																				

Computed by P. Santillan Checked by M. Stender

TIDE COMPLETION

PROJECT NO. Ph. 21415 T. 11887

Time and date of exposure 17 Feb 1962 Reference station Sea View Puerto Rico Mean range Spring 1.3  
 Date of field inspection Subordinate station Ratio of ranges

Time H. T. or L. T. Required time Interval	Time		Height feet	Height x Ratio of ranges	High tide at Ref. Sta. Time difference Corrected time at Subordinate station	Time		Photo. No. *
	h.	m.				h.	m.	
1801 1538 233	1137 1801 624	1.0 -0.4 1.4	-0.7 0.5 0.1	Feature bares Stage of tide above MLW Feature above MLW	PAN 1115,000 64W 321011			
1801 1548 213	1137 0924 213	-0.7 0.4 0.0	-0.7 0.4 0.0	Feature bares Stage of tide above MLW Feature above MLW	PAN 1115,000 64W 3242-44			
1137 0924 213	1137 0924 213	1.0 -0.4 +0.6	1.0 -0.4 +0.6	Feature bares Stage of tide above MLW Feature above MLW	COLOR 1115,000 64W 3126			

Time H. T. or L. T. Required time Interval	h.	m.	Ht. H. T. or L. T. Tabular correction Stage of tide above MLW	feet	Feature bares Stage of tide above MLW Feature above MLW	feet	Photo. No. *

High tide 1137  
 Low tide 527  
 Duration of rise or fall 5610  
 \* Used duration of rise or fall 620 in all photos.  
 \* Used average time of first series

Computed by B.H. BARRIS Checked by [Signature] M-2617-12

FIELD EDIT REPORT  
FOR  
SHORELINE MAPS T-11884 THROUGH T-11889

The Field Edit Report and the Report on Landmarks are included with the Descriptive Report for T-11884, pages 22 through 32.

REVIEW REPORT T-11887  
SHORELINE  
November 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6).

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

No. 2414, 1:5,000 scale, 1899

The new survey shoreline is up to 65 meters offshore from the 1899 survey. This may be from filling or other construction. The 1899 survey showed the shoreline only.

This map supersedes the listed prior survey for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

BAYAMON, P.R., quad, 1:20,000, 1939, revised 1957

There are shoreline variations of up to 25 meters.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

H-8848 (EX-5-1-65), 1:5000, 1965

In agreement.

65. COMPARISON WITH NAUTICAL CHARTS

CHART 908, 1:10,000, 24th edition, November 8, 1965, revised September 12, 1966

Shoreline location varies by as much as 30 meters.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

No accuracy tests have been run in the field.

This map meets the National Standards of Map Accuracy and Bureau requirements.

Approved by

*J. H. Hollis*  
Director, Atlantic Marine Center

*Charles Lawrence*  
Chief, Photogrammetric Branch

*J. Ralph Sobieralski*  
Chief, Photogrammetry Division

Reviewed by

*M. M. Slavney*  
M. M. Slavney

*Wallace A. Brucke, Jr.*  
Chief, Marine Chart Division

NOTES TO VERIFIER  
T-11887 Project 21415 (Ph-6403)  
BOAT SHEET No. H-8848 (EX-5-1-65)

None

