

# 11889

Diag. Cht. No. 903.

<b>Form 504</b> U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY  <b>DESCRIPTIVE REPORT</b>	
<i>Type of Survey</i> SHORELINE (Photogrammetric)	
<i>Field No.</i> Ph 6403	<i>Office No.</i> T-11889
<b>LOCALITY</b>	
<i>State</i> Puerto Rico	
<i>General locality</i> San Juan to Loiza Aldea	
<i>Locality</i> Cano De Martin. Pena	
<u>19 64-65</u>	
<b>CHIEF OF PARTY</b>	
J. Bull, Atlantic Marine Center	
<b>LIBRARY &amp; ARCHIVES</b>	
<b>DATE</b>	Sept. 8, 1967

USCOMM-DC 5087

11889

DESCRIPTIVE REPORT - DATA RECORD

T-11889

PROJECT NO. (II):		
21415 PH-6403		
FIELD OFFICE (II):	CHIEF OF PARTY	
PHOTOGRAMMETRIC OFFICE (III):	OFFICER-IN-CHARGE	
Atlantic Marine Center	J. Bull, Director, Atlantic Marine Center	
INSTRUCTIONS DATED (II) (III):		
September 22, 1964 Field November 17, 1964 Office		
METHOD OF COMPILATION (III):		
Kelsh		
MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):	
1:5,000	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):	VERTICAL DATUM (III):	
Puerto Rico	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):		
San Mateo Church, 1902 ✓		
LAT.:	LONG.:	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
18° 26' 46".876 (1441.2m) ✓	66° 03' 49".863 (1463.2m) ✓	
PLANE COORDINATES (IV):	STATE	ZONE
Y = 222,723.25 ft. ✓      X = 628,054.15 ft. ✓	Puerto Rico	
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): None	DATE:
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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): A. E. Roundtree	DATE Nov. 1964
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PROJECTION AND GRIDS CHECKED BY (IV): P. Hawkins	DATE Nov. 1964
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CONTROL PLOTTED BY (III): K. Boyle	DATE Nov. 1964
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CONTROL CHECKED BY (III): H. Cordell	DATE Nov. 1964
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RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): H. P. Eichert (WSC)	DATE Nov. 1964
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STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY Reviewed by: B. Wilson R.J.Pate	DATE Dec. 1965
	CONTOURS Inapplicable	DATE

MANUSCRIPT DELINEATED BY (III): K. Boyle	DATE Dec. 1965
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SCRIBING BY (III): B. Barge	DATE Feb. 1966
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PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. R. Wagner & R. J. Pate	DATE Feb. 1966
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REMARKS: *FIELD EDIT: D. RICH MAR. 1965*

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

"W" Camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64 W 3237	Feb. 17, 1964	1546	1:15,000	0.0 above MLW
3238	"	"	"	
3239	"	"	"	

TIDE (III) Predicted

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: San Juan, Puerto Rico		1.1	1.3

SUBORDINATE STATION:

SUBORDINATE STATION:

Atlantic Marine Center  
WASHINGTON OFFICE REVIEW BY (IV):

*M.M. SLAVNEY*

DATE:

*Aug 1966*

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

?

RECOVERED:

1

IDENTIFIED:

1

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

None

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

None

REMARKS:

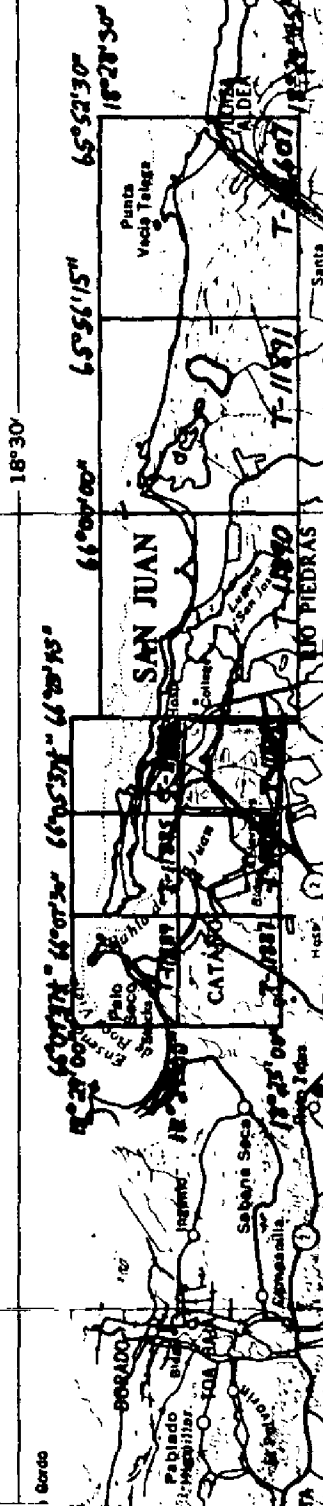
COMPILATION RECORD

COMPLETION DATE

REMARKS

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	Jan. 1965	Superseded
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

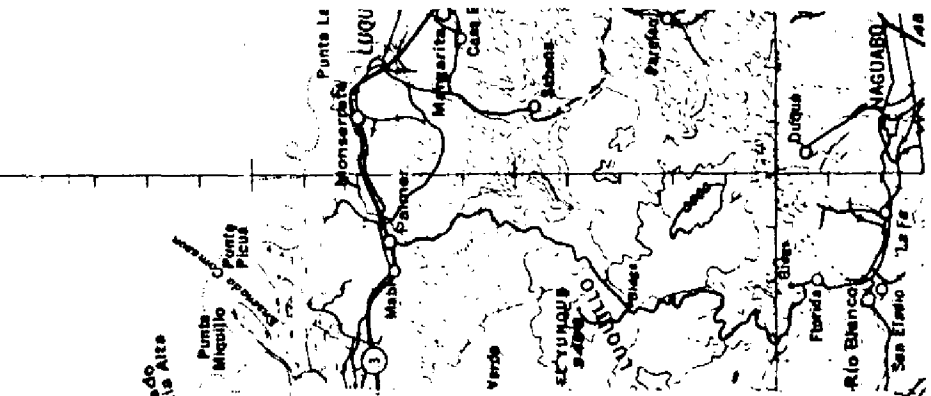
Area  
Sq. Mi.

8  
9  
6  
16  
9  
18  
11  
23  
91

Sheet  
Number  
T-11884  
T-11885  
T-11886  
T-11887  
T-11888  
T-11889  
T-11890  
T-12607  
T-11891

1  
2  
2  
5  
3  
4  
9  
11  
11  
48

Totals



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11889

Shoreline manuscript T-11889 is one of six 1:5,000 scale manuscripts on 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 was also 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 manuscripts was a vinylite sheet 2 minutes, 00 seconds in latitude, and 1 minute 52.5 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.



MAP T. 11889 PROJECT NO. 21415 SCALE OF MAP 1:5,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
						FORWARD	(BACK)	
SAN MATEO CHURCH, 1902	GP 34	Puerto Rico	18° 26' 46.876" ✓ 66 03 49.863 ✓					
PIER (PAA 1961)	GP	N.A. 1927	18 26 45.801 ✓ 66 05 30.491 ✓					

COMPILATION REPORT  
T-11889

PHOTOGRAMMETRIC PLOT REPORT

Submitted with T-11884

31. DELINEATION

The Kelsh plotter was used. 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. CONTOUR AND DRAINAGE

Inapplicable

35. SHORELINE AND ALONGSHORE DETAILS

There was no shoreline inspection. Shallow and foul lines were delineated from office interpretation of the photos.

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 are in agreement with T-11888 to the west, T-11890 to the east, and T-11886 to the north. There is no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U.S.G.S. Quadrangle San Juan, Puerto Rico scale 1:20,000 dated 1957. They are in good agreement.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with chart No. 908 scale 1:10,000, revised 11/19/62.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Approved and Forwarded:

*Karl G. Boyle*

Karl G. Boyle  
Cartographic Tech.

*J. Bull*

J. Bull  
Director, Atlantic Marine Center

48. GEOGRAPHIC NAME LIST

BAHIA DE SAN JUAN  
CANO DE MARTIN PENA  
HATO REY NORTE  
X NEMESIO CANALES  
PUENTE CONSTITUCION  
X QUEBRADA DE LOS MUERTOS  
RIO PUERTO NUEVO  
SANTURCE  
TALLERES  
CANO DE SAN FRANCISCO \*\*

\*\* Name from chart 908

*X Outside compilation limits*

GEOGRAPHIC NAMES  
Ph 21415 (Puerto Rico)

T-11889 (shoreline)

- ✓ Bahia de San Juan
- ✓ Cano de Martin Pena
- ✓ Hato Rey Norte
- \* Nemesio Canales
- ✓ Puente Constitucion
- \* Quebrada de las Muertos
- ✓ Rio Puerto Nuevo
- ✓ Santurce
- ✓ Talleres

*A. J. Wraight*

A. J. Wraight  
Geographic Names

\* *Outside Compilation Limits*

T - 11889

49. NOTES TO THE HYDROGRAPHER

Offshore features such as piles, trees in water, etc. have been shown according to office interpretation. These should be verified by the hydrographer.

Lights that could be located by the Kelsh have been shown as an aid to 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.

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

The shoreline along the north shore of Cano de Martin Pena between approximate Long.  $66^{\circ} 03' 45''$  to Long.  $66^{\circ} 04' 30''$  could not be discerned on the photographs due to the alongshore buildings. Some of these buildings appear to be on pilings in the water. Investigate and correct the mean high water line in this area as its position as shown is very doubtful.

A discrepancy as a result with notes for verification to the hydrographer and/or field editor is being forwarded with this report.

**PHOTOGRAMMETRIC OFFICE REVIEW**

T-10363 T-11889

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 KELSH
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
12. SHORELINE RRW	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. RRW	15. BRIDGES XX
16. AIDS TO NAVIGATION XX	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES RRW	19. OTHER ALONGSHORE CULTURAL FEATURES RRW
<b>PHYSICAL FEATURES</b>			
20. WATER FEATURES RRW		21. NATURAL GROUND COVER RJP	22. PLANETABLE CONTOURS XX
23. STEREOSCOPIIC 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 RES	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS RJP
40. REVIEWER RJP <i>R.J. Pate</i>		SUPERVISOR, REVIEW SECTION OR UNIT ACR <i>Albert C. Rauck, 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. Pate</i>		SUPERVISOR ACR <i>Albert C. Rauck, Jr.</i>	
43. REMARKS			

# TIDE COMPUTATION

PROJECT NO. Ph. 2/4/5 T. 11889

Time and date of exposure 17 Feb 64 Reference station San Juan Puerto Rico Mean range 1.1  
 Date of field inspection 17 Feb 64 Subordinate station San Juan Puerto Rico Ratio of ranges 1.3

	Time		Height feet	Height x Ratio of ranges	Time	
	h.	m.			h.	m.
High tide	11	37	1.0			
Low tide	18	01	-0.4			
Duration of rise or fall	6 24		1.4			

	h. m.		feet	feet	Photo. No.*
	Time H. T. or L. T. Required time* Interval	18 01 15 47			
Time H. T. or L. T. Required time Interval	18 01 15 16	2 45	-0.4 0.6 +0.2		PAN 1130000 64W3201, 02
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					

\* Use duration of rise or fall 6.20 on all photos  
 \* used average time of photo series

Computed by B.H. Barnes Checked by ZJ



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.

Deleted 5 abstractions

REVIEW REPORT T-11889  
SHORELINE  
November, 1966

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6).

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Registered Survey 2487, 1:10,000, 1900

Survey 2487 has been made obsolete by construction.

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

63. COMPARISON WITH MAPS OF OTHER AGENCIES

San Juan, P.R., U.S.C.&G.S., 1:20,000, 1939-40, revised 1957.

The quadrangle positions of seawalls, bulkheads, etc., in the vicinity of longitude 66°05.4 is about 15 meters east of the T-11889 positions. See the Comparison Print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Boat Sheet H-8849 (EX-5-2-65) 1:5,000, 1965

The Comparison Print shows two stakes on the boat sheet, not in this map. They were not visible on the photographs, and they were not noted by the field editor.

The two lights, see "B" in the Comparison Print, used as hydrographic signals VAN and WAR, have been discontinued and removed, per Notice to Mariners 10/66 #1435. They have been removed from the map.

Minor revisions to the shoreline have been made after the ADVANCE Manuscript was furnished the hydrographer.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 908, 1:10,000, 24th Edition, November 8, 1965, revised September 12, 1966.

The Comparison Print shows the Aids to Navigation and one "stake" from the chart that are not on this map. These were not noted or identified by the field editor, and are not "positively" identifiable on the photographs.

There are discrepancies in position (to 30 meters) of the CANO DE MARTIN PENA shoreline on the chart, this map should be used for this area.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

No accuracy tests have been run. The map meets the National Standards for Map Accuracy and Bureau requirements.

Approved by:

Reviewed by:

*A. L. Hollis*  
Director, Atlantic Marine Center

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

*Charles L. ...*  
Chief, Photogrammetry Branch

*J. Ralph Sobieralski*  
Chief, Photogrammetry Division  
09-30-67  
os

*Wallace A. Bruden*  
Acting Chief, Marine Charts Division

NOTES TO VERIFIER  
T-11889 Project 21415 (Ph-6403)  
BOAT SHEET No. H-8849 (EX-5-2-65)

Please see Comparison Print and Items 64 and 65 of the Descriptive Report for T-11889.

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11889

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.

CHART	DATE	CARTOGRAPHER	REMARKS
908 (1890) 25670 (908)	6 Aug 74	W. Harrison	Full <del>Part Before</del> After Verification Review Inspection Signed Via Drawing No. <i>No case plus this report</i>
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
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