

# 12607

Diag. Cht. Nos. 903 & 904.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey SHORELINE (Photogrammetric)

Field No. Ph6403 Office No. T-12607

### LOCALITY

State Puerto Rico

General locality San Juan to Loiza Aldea

Locality Punta Vacia Talega

1964-66

### CHIEF OF PARTY

J. Bull, Atlantic Marine Center

### LIBRARY & ARCHIVES

DATE Sept. 8, 1967

USCOMM-DC 5087

# 12607

## DESCRIPTIVE REPORT - DATA RECORD

T -12607

PROJECT NO. (II):

JOB PH-6403

FIELD OFFICE (III):

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center

OFFICER-IN-CHARGE

J. Bull, Director, Atlantic Marine Center

INSTRUCTIONS DATED (II) (III):

22 Sept. 1964

17 Nov. 1964

METHOD OF COMPILATION (III):

Kelsh

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000 pantographed to 1:10,000

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

~~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):

TELEGAS 1902 ✓

LAT.:

LONG.:

18° 27' 11".960 (367.7m) ✓

65° 54' 09".930 (291.4m) ✓

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

= 225,390.60 ft. ✓

x = 683,877.65 ft. ✓

Puerto Rico

Zone 1

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  
(12-61)U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (III):  None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Air Photo Compilation Date of Photography, 17 February 1964		
PROJECTION AND GRIDS RULED BY (IV):  A. E. Roundtree		DATE November 1964
PROJECTION AND GRIDS CHECKED BY (IV):  P. Hawkins		DATE November 1964
CONTROL PLOTTED BY (III):  H. Cordell		DATE November 1964
CONTROL CHECKED BY (III):  K. Boyle		DATE November 1964
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  G. M. Ball		DATE December 1964
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY  A. L. Shands	DATE November 1965
	CONTOURS  Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):  A. L. Shands		DATE December 1965
SCRIBING BY (III):  R. E. Smith, Jr.		DATE July 1966
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  R. J. Pate		DATE December 1965
REMARKS:  Field Edit R. S. Tibbetts April 1966		

FORM C&GS-181c  
(3-66)U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

W camera

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64-W-3193	Feb. 17, 1964	1512	1:30,000	0.2 above MLW
64-W-3194	"	1513	"	"
64-W-3195	"	1513	"	"

TIDE (III) Predicted

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: SAN JUAN PUERTO RICO		1.1	1.4
COORDINATE STATION:			
SUBORDINATE STATION:			

Atlantic Marine Center  
WASHINGTON OFFICE REVIEW BY (IV):

M.M. SLAVNEY

DATE:

MARCH 1967

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

IDENTIFIED:

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:

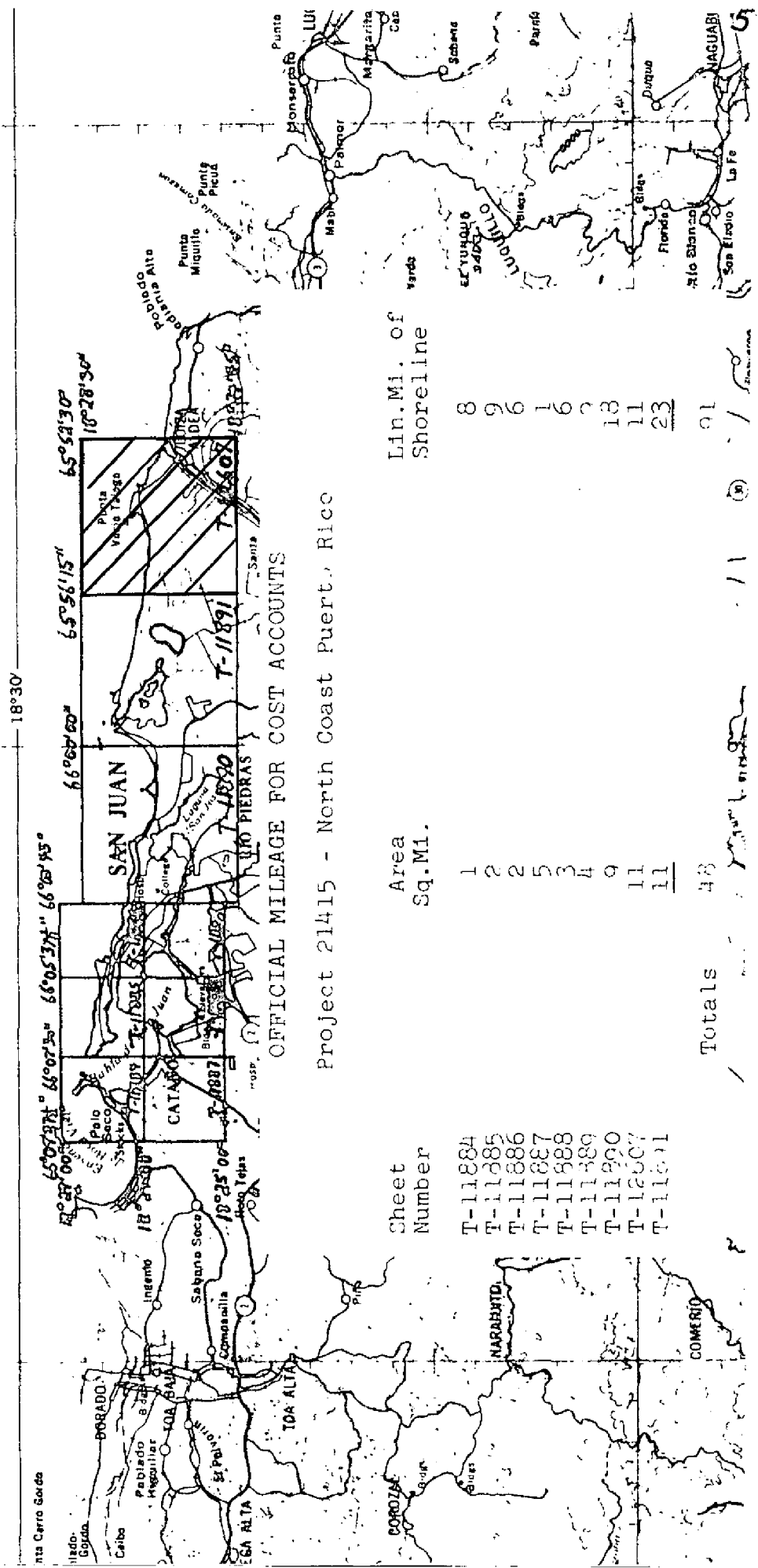
COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro	January 1966	Superseded
Field Edit applied Manuscript complete	June 1966	<i>Superseded</i>
<i>Revised during final review</i>	<i>Mar. 1967</i>	

# 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

Sheet Number	Area Sq.Mi.	Lin.Mi. of Shoreline
T-11884	1	8
T-11885	2	9
T-11886	2	6
T-11887	5	1
T-11888	3	6
T-11889	4	2
T-11890	9	13
T-12507	11	11
T-11891	11	23
<b>Totals</b>	<b>43</b>	<b>91</b>

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12607

Shoreline manuscript T-12607 is one of three 1:10,000 scale maps in PH-6403 (San Juan to Loiza Aldea, Puerto Rico), which also contains six 1:5,000 scale maps. 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. 1:30,000 scale panchromatic photographs and 1:10,000 scale color photographs were taken with the "W" camera for the 1:10,000 scale maps. 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.

Field work preceding compilation consisted of control identification only. The manuscript was field edited in conjunction with photo-hydro support.

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

FIELD INSPECTION REPORT

There was no field inspection prior to compilation.







SCALE FACTOR

ADDENDUM TO PAGE 8



COMPILATION REPORT  
T-12607

Photogrammetric Plot Report submitted with T-11890.

31. DELINEATION

Compilation was done by the Kelsh plotter. Color photography was used as an aid in delineation of rocks and other offshore features. Photography was satisfactory. 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. Foul areas, breakers, and coral were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

See Item 31 and 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-11891 to the west and T-12136 (PH-6106) to the east. The Atlantic Ocean is to the north. There is no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle CAROLINA, P.R. scale 1:20,000 dated 1957.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart No. 903, scale 1:100,000, 6th edition, March 16, 1964.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

*P. E. Smith*  
R. E. Smith  
Cartographer

Approved & forwarded:

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

48. GEOGRAPHIC NAME LIST

ATLANTIC OCEAN \*

EL CHORRO

LOIZA ALDEA

PTA <sup>A</sup>VICIA TALEGA

RIO GRANDE DE LOIZE<sup>A</sup>

TORRECILLA BAJA

\* Not on name list of A. J. Wraight



GEOGRAPHIC NAMES  
Ph 21415 (Puerto Rico)

T- 12607 (shoreline)

*Atlantic Ocean*

\* Cano Gallardo

\* Cano Paludica

\* Cano Zequeira

El Chorro

\* Islote de Juan Perez

\* Las Cuevas

\* Las Mercedes

Loiza Aldea

\* Mediania Baja

Pta Vacia Talega

Rio Grande de Loiza

\* Torrecilla Alta

Torrecilla Baja

\* *Beyond delineation limits*

*A. J. Wright*  
*Geographic Names*

T-12607

49. NOTES FOR THE HYDROGRAPHER

Refer to project instructions dated Sept. 22, 1964. See paragraph No. 6.02 regarding landmarks and aids. See items noted on discrepancy print.

C&GS FORM 1002  
(11-18-61)U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## PHOTOGRAMMETRIC OFFICE REVIEW

T-10363 12607

1. PROJECTION AND GRIDS RJP	2. TITLE RJP	3. MANUSCRIPT NUMBERS RJP	4. MANUSCRIPT SIZE RJP
CONTROL STATIONS			
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 (WSC)	11. DETAIL POINTS Kelsh
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE RJP	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. RJP	15. BRIDGES XX
16. AIDS TO NAVIGATION XX	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES RJP	19. OTHER ALONGSHORE CULTURAL FEATURES RJP
PHYSICAL FEATURES			
20. WATER FEATURES RJP	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
CULTURAL FEATURES			
27. ROADS RJP	28. BUILDINGS RJP	29. RAILROADS XX	30. OTHER CULTURAL FEATURES RJP
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
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>A. 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 <i>Lowell O. Ketterer Jr.</i> LON		SUPERVISOR ACR <i>Albert C. Rauck Jr.</i>	
43. REMARKS			



## FIELD EDIT REPORT

T-12607

The field edit report is included with the Descriptive Report for T-11890.

REVIEW REPORT T-12607  
SHORELINE  
March 1967

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6).

An ozalid Comparison Print showing the differences noted in Items 62, 63 and 65 is enclosed with the original of this report. The flight lines of the color photographs are also shown on the Comparison Print.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Registered Survey 4205; 1:20,000; 1921

The shoreline, rocks, islets and reefs from No. 4205 are on the Comparison Print in blue.

Numerous islets, rocks and reefs appear on T-12607 which are not shown on Survey 4205. They were corroborated by the field editor, with the exception of the following:

1. The rocks offshore between longitude  $65^{\circ}55.6'$  and  $65^{\circ}56.05'$  could not be verified by the field editor, who noted "not visible in heavy surf 0907, 3/1/66".

2. The islet at latitude  $18^{\circ}27.34'$ , longitude  $65^{\circ}54.6'$  was not noted by the field editor, but was added during final review. It is visible on black and white photographs 64-W-3193 and 3194 (taken at 1.0 ft. below predicted M.H.W.); and on color photographs 64-W-3276 and 3277 (taken at 1.3 ft. below predicted M.H.W.). It may, therefore, be awash.

There are shoreline differences to 90 meters, and the river Rio Grande DeLoiza is not on Survey 4205.

T-12607 supersedes Registered Survey 4205 for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

CAROLINA, P. R., U.S.G.S. quad.; 1:20,000; 1940, revised 1949 and 1957.

There are shoreline changes to 170 meters east of longitude  $65^{\circ}53.7'$ . There are shoreline changes to 40 meters in other areas.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None; the 1921 Registered Survey 4205 is the latest, see Item 62.

65. COMPARISON WITH NAUTICAL CHARTS

Chart 903; 1:100,000; 6th Edition, March 16, 1964.

Chart 904; 1:100,000; 11th Edition, December 28, 1964.

The scale, 1:100,000, of these two charts diminishes the value of a detailed comparison with T-12607. Some of the chart data, reefs and islets, resembles Survey 4205, please see Item 62.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

No accuracy tests were run in the field. The survey meets the National Standards for Map Accuracy and Bureau requirements.

Approved by:

Reviewed by:

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

M. M. Slavney  
M. M. Slavney

Approved by:

Charles H. Hannon  
Chief, Cartographic Branch  
Photogrammetric 56 B

J. Ralph Sobieralski  
Chief, Photogrammetry Division  
09-30-67  
08

Acting Wallace A. Bruder  
Chief, Chart Division

Chief, Operations Division

NOTES TO VERIFIER  
T-12607 Project 21415 (PH-6403)  
Boat Sheet No. none

No contemporary survey in March 1967.

