# DESCRIPTIVE REPORT

**Type of Survey**: SHORELINE (Photogrammetric)

**Field No.**: Ph-6403  **Office No.**: T-11891

## LOCALITY

- **State**: Puerto Rico
- **General locality**: San Juan to Loiza Aldea
- **Locality**: Punta Maldonado

**1964-66**

**CHIEF OF PARTY**

J. Bull, Atlantic Marine Center

## LIBRARY & ARCHIVES

**DATE**: Sept. 8, 1967
DESCRPTIVE REPORT - DATA RECORD

PROJECT NO. (III):

JOB PH-6403

FIELD OFFICE (III):

CHIEF OF PARTY

PHOTOGRAFMETRIC OFFICE (III):

OFFICER-IN-CHARGE

Atlantic Marine Center

J. Bull, Director, Atlantic Marine Center

INSTRUCTIONS DATED (III) (IV):

22 September 1964
17 November 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):

GEORGIC DATUM (III):

Puerto Rico

REFERENCE STATION (III):

PUERTO RICO INTERNATIONAL AIRPORT AP STATION B 1962

LAT.:

18° 27' 07.207" (221.6m)

LONG.:

65° 59' 20.071" (588.9m)

PLANE COORDINATES (IV):

STATE

ZONE

ADJUSTED

Puerto Rico

Zone 1

 Roman numerals indicate whether the item is to be entered by (I) 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 (III):**

None  

**DATE:**

**MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):**

Air Photo Compilation  
Date of Photography: 17 February 1966

**DATE:**

**PROJECTION AND GRIDS RULED BY (IV):**

A. E. Roundtree  

**DATE:**  

November 2, 1964

**PROJECTION AND GRIDS CHECKED BY (IV):**

P. Hopkins  

**DATE:**  

November 2, 1964

**CONTROL PLOTTED BY (III):**

K. Boyle  

**DATE:**  

November, 1964

**CONTROL CHECKED BY (III):**

H. Cordell  

**DATE:**  

November, 1964

**RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):**

G. M. Ball  

**DATE:**  

December, 1964

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

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<td>B. Wilson</td>
<td>December 1965</td>
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<tr>
<td>Inapplicable</td>
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**MANUSCRIPT DELINEATED BY (III):**

B. Wilson  

**DATE:**  

December 1965

**SCRIBEING BY (III):**

**DATE:**

**PHOTOGRAMMETRIC OFFICE REVIEW BY (III):**

R. J. Pate  

**DATE:**  

January 1966

**REMARKS:**

Field Edit R. S. Tibbetts  
April 1966
### DESCRIPTIVE REPORT - DATA RECORD

**CAMERA (KIND OR SOURCE) (III):**

- FM camera

**PHOTOGRAPHS (III):**

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<th>STAGE OF TIDE</th>
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<td>1:30,000</td>
<td>02 above MLW</td>
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<td>3196</td>
<td>&quot;</td>
<td>&quot;</td>
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**TIDE (III) Predicted**

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<th>SPRING RANGE</th>
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<td>1.1</td>
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**REFERENCE STATION:**
SAN JUAN, PUERTO RICO

**COORDINATE STATION:**

**SUBORDINATE STATION:**

Atlantic Marine Center

**WASHINGTON REVIEW BY:  M. M. SLAVNEY**

**DATE:**
Feb. 1967

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):** None

**NUMBER OF BM(S) SEARCHED FOR (II):** None

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):** None

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):** None

**REMARKS:**

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<td>Field Edit applied</td>
<td>June 1966</td>
<td>&quot;</td>
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<td>Manuscript complete</td>
<td>Aug. 1966</td>
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<tr>
<td>Manuscript Complete</td>
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<tr>
<td>Revised during final review</td>
<td>Feb. 1967</td>
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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11891

Shoreline manuscript T-11891 is one of three 1:10,000 scale maps in PH-6103 (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 "M" camera for the 1:10,000 scale maps. The stereobridge 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.
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<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
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<td>228,373.15</td>
<td>653,309.13</td>
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<td>670,616.27</td>
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<td>Congrejo, 1964</td>
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<td>Puerto Rico International Airport AP STA B, 1962</td>
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<td>Point Congrejos, 1902</td>
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<td>San Jose Hill, 1902</td>
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1 FT = 0.03048006 METER

COMPUTED BY: E. Wilson  DATE: October 13, 1965
CHECKED BY: Santillan 10/15/65
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.

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-11890 to the west and T-12607 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.

Approved and Forwarded:

J. Bull, USESSA
Director, Atlantic Marine Center

R. E. Smith
Cartographer
18. GEOGRAPHIC NAME LIST

ATLANTIC OCEAN *

BOCA DE CONGREJOS

BOSQUE ESTATAL DE PINONES

ISLA LA CONCOROA

LAGUNA DE PINONES

LAGUNA LA TORRECILLA

PLAYA DE LAS TRES PALMITAS

PTA MALDONADO

PUERTO RICO INTERNATIONAL AIRPORT *

PUNTA LARGA

PUNTA MOSQUITOS

TORRECILLA BAJA

* Not on name list of A. J. Wraight
GEOGRAPHIC NAMES
Ph 21415 (Puerto Rico)
T-11891 (shoreline)

Atlantic Ocean
Boca de Cangrejos
* Bosque Estatal de Pinones
* Cangrejo Arriba
** Cerro San Jose
   Isla La Cancora
** Islote Num 1
** Islote Num 2
** La Ceramica
   Laguna de Pinones
   Laguna La Torrecilla
* Municipio de Loiza
* Municipio de Carolina
   Playa de las Tres Palmitas
   Pta Maldonado
   Pta Congrejos (from Chart 903)
   Punt Larga
   Punta Mosquitos
* Sabana Abajo
** Torrecilla Baja

* Not used, limits not shown
** " " " beyond compilation limits.

A. J. Wraight
Geographic Names
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.
### PHOTOGRAMMETRIC OFFICE REVIEW

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<th>1. PROJECTION AND GRIDS</th>
<th>2. TITLE</th>
<th>3. MANUSCRIPT NUMBERS</th>
<th>4. MANUSCRIPT SIZE</th>
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### CONTROL STATIONS

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<th>5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY</th>
<th>6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)</th>
<th>7. PHOTO HYDRO STATIONS</th>
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<th>8. BENCH MARKS</th>
<th>9. PLOTTING OF SEXTANT FIXES</th>
<th>10. PHOTOGRAMMETRIC PLOT REPORT</th>
<th>11. DETAIL POINTS</th>
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<td>XX</td>
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<td>Bridge (WSC)</td>
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### ALONGSHORE AREAS (Nautical Chart Date)

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<th>12. SHORELINE</th>
<th>13. LOW-WATER LINE</th>
<th>14. ROCKS, SHOALS, ETC.</th>
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### AIDS TO NAVIGATION

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<th>16. AIDS TO NAVIGATION</th>
<th>17. LANDMARKS</th>
<th>18. OTHER ALONGSHORE PHYSICAL FEATURES</th>
<th>19. OTHER ALONGSHORE CULTURAL FEATURES</th>
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### PHYSICAL FEATURES

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<th>21. NATURAL GROUND COVER</th>
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### CULTURAL FEATURES

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<th>23. STEREOSCOPIC INSTRUMENT CONTOURS</th>
<th>24. CONTOURS IN GENERAL</th>
<th>25. SPOT ELEVATIONS</th>
<th>26. OTHER PHYSICAL FEATURES</th>
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### MISCELLANEOUS

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<th>34. JUNCTIONS</th>
<th>35. LEGIBILITY OF THE MANUSCRIPT</th>
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### DISCREPANCY OVERLAY

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<th>36. DISCREPANCY OVERLAY</th>
<th>37. DESCRIPTIVE REPORT</th>
<th>38. FIELD INSPECTION PHOTOGRAPHS</th>
<th>39. FORMS</th>
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### REVIEWER

**Reviewer:**

[Lowell Pate]

**Supervisor:**

[Albert C. Rauch Jr.]  

**ACR:**

Albert C. Rauch Jr.

### REMARKS (See attached sheet)

#### 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 under item 43.

**Compiler:**

[Lowell O. Norte Jr.]

**Supervisor:**

[Albert C. Rauch Jr.]  

**ACR:**

Albert C. Rauch Jr.

### REMARKS
FIELD EDIT REPORT

T-11891

The field edit report is included with the Descriptive Report for T-11890.
REVIEW REPORT T-11891
SHORELINE
February 1967

61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6).

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Registered Survey 4205; 1:20,000; 1921

The Comparison Print shows these differences:

1. Shoreline differences to 80 meters in the Atlantic Ocean shoreline. The changes at Boca de Congrejos, latitude 18°27.65′ longitude 65°59.65′ are understandable at this pass. Most of the shoreline was inspected during field edit; see the field edit Discrepancy Prints and photographs 64-W-3195 thru 3197.

2. Differences in size, shape and position of Isla la Cancora, latitude 18°28.05′ longitude 66°00′ and the small islands and rocks east and south east to longitude 65°58.7′. Islets, rocks awash, sunken rocks, and foul areas on T-11891 from latitude 18°27.25′ longitude 65°57.5′ east to the map limits differ from Survey 4205. The original delineation on T-11891 was checked with color photographs 64-W-3267 through 3274 and 3303 through 3307. The field editor was unable to check the area; see his report, bound with T-11890.

T-11891 supersedes registered survey 4205 for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

CAROLINA, Puerto Rico; U.S.G.S. Quad.; 1:20,000; 1940 revised in 1949 and 1957.

The shoreline in the vicinity of Boca de Congrejos has changed most drastically. The Comparison Print indicates the changes.
64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None. The 1921 Registered Survey 4205 is the most recent, see Item 62.

65. COMPARISON WITH NAUTICAL CHARTS


Registered Survey 4205 appears to be the source for most of this offshore planimetry on Chart 903; scale of Survey 4205 makes it preferable for comparison, so please refer to Item 62.

The chart shows a privately maintained aid to navigation at latitude 18°26.9' longitude 65°59.9', which is listed in the 1966 light list as CABALLO RANGE FRONT AND REAR LIGHTS. They were not identified or located by the field editor, and are discussed by him in paragraph 3 of Item 51 of the Field Edit Report.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:  

Approved by:

M. M. Slavney  

J. Bull, RADM  

Director, Atlantic Marine Center

Approved by:

Charles Thomas  

Ralph Sobieralski  

Chief, Cartographic Branch  

Chief, Photogrammetry Division  

Photometric  

Chief, Chart Division  

Chief, Operations Division
NOTES TO VERIFIER
T-11891 Project 21h15(PH-6h03)
BOAT SHEET NO. No contemporary survey in Feb. 1967

See Items 62 and 65 of this report and the Comparison Print.
**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.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<td>Full Part Before Verification Review Inspection Signed Via Drawing No.</td>
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