

6876 a&b

Diag. Cht. No. 904

Form 504  
Rev. April 1935  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Topographic }  
Hydrographic } Sheet No. \_\_\_\_\_  
Field Sheet "E+L"

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

APR 20 1942

Acc. No. \_\_\_\_\_

State Puerto Rico

### LOCALITY

Roosevelt Roads Naval Base

North of Pt. Lima

Pt. Medio Mundo + Vic.

Project C. S. # 268

1941

CHIEF OF PARTY

Ray L. Schoppe

U. S. GOVERNMENT PRINTING OFFICE

DECLASSIFICATION BY NOAA  
PURSUANT TO DOC SYSTEMATIC REVIEW  
GUIDELINES AS DESCRIBED IN SECTION  
3.3 (a), EXECUTIVE ORDER 12356

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. " E "

REGISTER NO. T6876a

CONFIDENTIAL

State Puerto Rico

General Locality ~~East End near Ensenada Honda~~ Roosevelt Roads

Locality ~~Roosevelt~~ Point Media Mundo and Vicinity  
Roosevelt Roads Naval Base.

Scale 1 / 4800 Date of survey June - August, 1941

Vessel Shore Party

Chief of party Ray L. Schoppe

Surveyed by J. P. Diaz and Lt. F. A. Riddell

Inked by A Diezel, and E. Torruella

Heights in feet above M. H. W. to ground to tops of trees

Contour, Approximate contour, Form line interval 5 feet

Instructions dated May 20 (Radiogram), 1941

Remarks: Special survey for the Navy Department

GPO 266853

Alidade No. 247 was used on this sheet.

Field Sheet "L" is on the back of this sheet.

T-6876b

REG. NO. T6876a  
CONFIDENTIAL



PROJECT C. S. # 268

Field Number - Sheet "E" T-6876a

This sheet covers a part of Roosevelt Roads Naval Base. It is one of a series of thirteen sheets. This sheet covers Point Medio Mundo and the low land adjacent to it. For notes that apply to all sheets the series, reference is made to the Descriptive Report of Sheet "A", of this project. T-6872 (1941)

(a) Descriptive.

Point Medio Mundo is an island. It appears as a bold headland which rises to an elevation of 133 ft. above M. H. W. It is grass covered and a bluff 80 ft. high faces the northeast. On the southwest side of the hill, the slope falls off sharply into an area of sand bars and mangrove about a mile wide. West of this mangrove swamp is an area of cleared pasture land. This formerly was all planted in sugar cane. A small amount of cane is grown this year in an area one half mile south of MOUND.

(b) Landmarks.

The bluff and the steep hillsides on Point Medio Mundo are distinctive and are more prominent than any of the other hills in this immediate vicinity. There are no other landmarks on this sheet.

(c) Control.

Control points on this sheet were located by triangulation in 1941. A special report on this triangulation



has been submitted. All triangulation, on this project in 1941, is observed with second order accuracy. But the recovered stations, MURPHY 2, PUERCA, CEIBA and PRIETO are a part of the adjusted third order scheme which covers Puerto Rico and the Virgin Islands.

On this sheet, the topography is controlled by stations, MOUND, MEDIO, CLARA. Topographic stations MAN and NOD were plotted from theodolite cuts.

Elevations on this sheet were controlled by spirit levels in the vicinity of CLARA, and by direct readings on high water line. Vertical control is discussed in the Descriptive Report on Sheet "A".  
T-6872 (1941)

(d) Traverse.

The control was so located that practically all work could be done from three point fix positions. Few, and only short traverses between three point fix positions were run. If the closure was greater than three meters it was rerun. If less, it was adjusted. No detail was taken from the traverse points until after adjustment.

(e) Survey methods.

Topography on this sheet started with inexperienced personnel at station MOUND. See general notes in the descriptive report of sheet "A".  
T-6872 (1941)

(f) Form lines.

No offshore verification of form lines was possible. Various aerial photographs, - some vertical and



some oblique, were available and form lines were carefully checked with them.

(g) Revision Work.

None on this sheet. This is an entirely new survey.

(h) Incomplete Portions.

There are no incomplete areas on this sheet.

(i) Deviation from Standard Practice.

See notes in Descriptive Report of Sheet "A". FL872 (1941)

(j) Junctions.

At all junctions between sheets, a small overlap was run and if contours did not make a good fit, the field work was re-run until the correct elevations were located. No adjustments were then necessary.

(k) Names.

The names of material objects on this sheet are well established and are accepted locally. No new names are added.

(l) Plane table positions.

Triangulation stations furnish good control for plane table work on this sheet. No marked plane table stations were established.

(m) Photographs.

The entire area has been photographed at least three times. The U. S. Geological Survey is now compiling an



aero-topographic map of the whole island. Their pictures are all single lens prints. I had several of them for a few days, but none were available when sheets were finally inked. The Army Engineers have some rather good looking prints of the entire coast line but I have no information as to the control that they used nor as to the accuracy of the scale, etc. ✓  
Several years ago, the Puerto Rico Reconstruction Administration had a mosaic made from aerial photographs. This gives good detail in some regions but at Ensenada Honda and the Dagua River area, the prints are not distinct. Some recent oblique photographs taken by the Navy in March 1941 were useful in checking the detail of Point Medio Mundo and the mangrove area south of NOD and SUN.

(n) Changes in Shoreline.

None were noted.

(o) Marshes.

An extensive area of marsh land is found east of the line between CLARA and MOUND. During a period of heavy rainfall, it is difficult to locate the highwater line. This line, is therefore shown as dotted on this sheet. The inner edge of the marsh land, however, is plainly indicated by a difference in vegetation. The line between marsh and mangrove is not well defined but, on the sheet, it is believed that the dashed highwater line is shown substantially correct. ✓



- 5 -


## (p) Magnetism.

On this project, the mean value of eight declination observations is  $6^{\circ}20'$ .

## (q) Statistics.

Shoreline	6.8 miles
Roads	0.9 miles
Creeks	4.5 miles

Respectfully submitted,



Ray L. Schoppe, Lt. Comdr. U.S.C. & G.S.  
Officer in Charge  
San Juan Magnetic Observatory



## Remarks

## Decisions

1		182656
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3		U.S.G.B
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6	For title See pp. 37924 (q U.S.N.)	182653-54
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# GEOGRAPHIC NAMES

Survey No.

**T6876a**

**CONFIDENTIAL**

Name on Survey

On Chart No. On previous survey No. On U. S. quadrangle Maps From local information On local Maps P. O. Guide or Map Rand McNally Atlas U. S. Light List

A.	B.	C.	D.	E.	F.	G.	H.	K.	
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Point Medio Mundo

Port Medio Mundo

Medio Mundo Passage

Roosevelt Roads

Names unchanged in red approved  
by L. Heck 6/18/45



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. " L "

REGISTER NO. T6876 b  
CONFIDENTIAL

State Puerto Rico

General Locality East End near Ensenada Honda

Locality North of Pt. Lima  
Roosevelt Roads Naval Base

Scale 1 / 4800 Date of survey October - December, 19 41

Vessel Shore Party

Chief of party Ray L. Schoppe

Surveyed by N. Caola

Inked by N. Caola

Heights in feet above M. H. W. to ground to tops of trees

Contour, Approximate contour Form line interval 5 feet

Instructions dated May 20, (Radiogram), 19 41

Remarks: Special survey for the Navy Department

GPO 266853

Alidade No. 249 was used on this sheet.

Field Sheet "E" is on the back of this sheet.


T-6876 a

REG. NO. T6876 b  
CONFIDENTIAL




PROJECT C. S. # 268

Field Number - Sheet "L" T-6876b

This sheet covers a part of the proposed area of Roosevelt Roads Naval Base. It is one of a series of thirteen sheets. This sheet covers the low land in the area drained by Quebrada Botijas and it includes the east slope of the ~~unnamed~~ <sup>unnamed</sup> hill on which  ALTURA is located. This is one of several sheets that border Algodones Bay. All of the area on this sheet is included on sheets "J" and "K". However, this sheet was constructed so that an additional field party could be put into the field.

At one time, it was proposed to include all of the area of this sheet in the Naval Base. But about two days before the field work was finished, it was announced that at the present time, this area would not be purchased.

(a) Descriptive.

Rich sugar cane fields are found on the north side of this sheet. The hill on which  ALTURA is located, is mostly cleared pasture land. There are trees on the top of the hill, but they are not thick enough to interfere with our surveys. The mangrove swamp on the southeast part of the sheet joins the mangrove on sheet "J".

(b) Landmarks.

There are no landmarks on this sheet.



(c) Control.

Control points on this sheet were located by triangulation in 1941. A special report on this triangulation has been submitted. All triangulation on the project in 1941, is observed with second order accuracy. But the recovered stations, MURPHY 2, PUERCA, CEIBA and PRIETO are a part of the adjusted third order scheme which covers Puerto Rico and the Virgin Islands.

The topography on this sheet is controlled by stations LIMA <sup>2</sup>, LINEA, BOLMA, ALTURA, COLON, MONTIDA and CURVA. Topographic signals RAM and FAT and Derrick and Windmill were located by theodolite cuts. Signal LOG is a pole set in the water, for temporary use. It was located and plotted by sextant angles. The outer edge of the mangrove, near LOG, was located by sextant angles taken from a flat bottomed skiff.

The elevation of all triangulation stations on this sheet were computed from vertical angles and checked by rod readings to M. H. W. These elevations then were used for vertical control of the plane table work.

(d) Traverse.

Traverses were then run between points located by three point fixes but such traverses were short. If closure was greater than three meters, the traverse was entirely re-run. If less, it was adjusted. No detail was taken from traverse



points until the correct location was selected.

(e) Survey Methods.

Three point fixes were obtained wherever possible. But much of this sheet is covered by tall sugar cane. In a few cases, enough cane was cut to permit signals to be seen for a three point fix. By making set-ups at road intersections, etc., the cutting of cane was reduced to a minimum.

N. Caola did the field work on this sheet. By the time he started this sheet, he appeared to have learned what was needed on a sheet and he was able to solve his own problems in the field. If suitable control be available, I would not hesitate to send him out for independent work.

(f) Form Lines.

No offshore verification of form lines was possible. Various aerial photographs, - some vertical and some oblique, were available and form lines were carefully checked with them.

(g) Revision Work.

None on this sheet. This is an independent survey.

(h) Incomplete Portions.

None on this sheet.

(i) Deviation from Standard Practices.

See notes in the Descriptive Report for sheet  
T-6872 (1941)  
"A", of this project.

(j) Junctions.

At all junctions between sheets, a small overlap was run and if contours did not make a good fit, the field work was re-run until the correct elevations were located. No adjustments were then necessary.

(k) Names.

Old names are well established. No new names are offered.

(l) Plane Table Positions.

Triangulation stations furnish good control for plane table work on this sheet. No marked plane table stations were established. Derricks are frequently moved and can not be depended on for control.

(m) Photographs.

The entire area has been photographed at least three times. The U. S. Geological Survey is now compiling an aero-topographic map of the whole island. Their pictures are all single lens prints. I had several of them for a few days, but none were available when sheets were finally inked. The Army Engineers have some rather good looking prints of the entire coast line but I have no information as to the control that they used nor as to the accuracy of the scale, etc. Several years ago, the Puerto Rico Reconstruction Administration had a mosaic made from aerial photographs. This gives good detail in some regions but at Ensenada Honda



and the Dagua River area, the prints are not distinct.

(n) Changes in Shoreline.

There are no changes in the shoreline of this sheet.

(o) Marshes.

No description is necessary.


(p) Magnetics.

An observation by declinoire near  $\Delta$  MONTIDA at 11:30 A. M., 60th Meridian time, November 6, 1941, gives a value of  $6^{\circ}35'$  west. An average of eight observations on this project gives a mean value of  $6^{\circ}20'$  west.

(q) Statistics.

Shoreline	1.8 mile
Roads	1.3 mile
Creeks	1.1 mile
Railroad	0.8 mile

Respectfully submitted,

  
Ray L. Schoppe, Lt. Comdr. U.S.C. & G.S.  
Officer in Charge  
San Juan Magnetic Observatory

## Remarks

## Decisions

1		181656
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4	For title	182653-54
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# GEOGRAPHIC NAMES

Survey No.

**T6876b**

CONFIDENTIAL

Name on Survey

On Chart No. On previous survey No. On U. S. quadrangle Maps From local information On local Maps P. O. Guide or Map Rand McNally Atlas U. S. Light List

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Names underlined in red approved

by L. Heck on 6/18/42

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT

~~PHOTOSTAT OF~~

~~NOXON~~

No. T **76876** a+b  
CONFIDENTIAL

received April 20, 1942  
registered April 22, 1942  
verified  
reviewed  
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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RETURN TO

82	R. W. Knox
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*V. Day*



DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. 6876a

Field No. E

Puerto Rico, Roosevelt Roads, Point Medio Munda & Vicinity  
Surveyed June - August 1941; Scale 1:4,800  
Instructions dated May 20, 1941 (radiogram), project 268

Plane Table Survey

Aluminum Mounted

Chief of Party - Ray L. Schoppe  
Surveyed by - F. A. Riddell and J. P. Diaz  
Inked by - A. Diezel and E. Torruella  
Reviewed by - Harold W. Murray  
Inspected by - H. R. Edmonston, August 22, 1944

1. Junctions with Adjacent Surveys

The junctions on the north, west, south and southwest with 1941 surveys T-6877a, T-6874, T-6875 and T-6873, respectively, are excellent.

2. Comparison with Prior Surveys

T-2538 (1901), scale 1:20,000

This survey covers the shoreline and mangrove area of the present survey but contains little contour or other inland details. General agreement with the present survey is good. The two open areas (charted) in the mangrove area just southwest of the Pt. Medio Mundo highland are not shown on the present survey and are probably no longer of any importance. The larger scale present survey is adequate to supersede this survey. The limits of the ledge detail surrounding Pt. Medio Mundo (charted) is shown in more detail on H-2527 (1901). The representation as charted should be retained.

3. Comparison with Chart 917 (latest print date 2-25-44)

Portions of the shoreline detail of the present survey have been applied to the chart prior to this review. The remaining details and contours remain to be applied.

The charted road or lane detail in the interior originates primarily with Chart Letter 121 of 1938. This information should be superseded by the present survey.

4. Condition of Survey

Satisfactory.

5. Compliance with Project Instructions

Satisfactory.

6. Additional Field Work Recommended

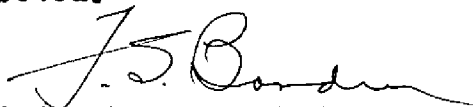
This large scale survey is thoroughly comprehensive and is therefore considered a basic survey.

7. Superseded Surveys


T-2538 (1901) in part

Examined and approved:

Chief, Surveys Branch

  
Chief, Division of Charts

Chief, Section of Hydrography

  
Chief, Division of  
Coastal Surveys



DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. 6876b

Field No. L

Puerto Rico, East End near Ensenada Honda, North of Pt. Lima  
Surveyed October - December 1941; Scale 1:4,800  
Instructions dated May 20, 1941 (radiogram), project 268

Plane Table Survey

Aluminum Mounted

Chief of Party - Ray L. Schoppe  
Surveyed by - N. Caola  
Inked by - N. Caola  
Reviewed by - Harold W. Murray  
Inspected by - H. R. Edmonston, August 22, 1944

1. Junctions with Adjacent Surveys

The junctions on the south and east with T-6882 and T-6881 of 1941, respectively, are excellent.

The north and western limits of the present survey represent the limits of this project.

2. Comparison with Prior Surveys

T-2540 (1901) and T-4323 (1927), scale 1:20,000

Detail on these surveys is very sparse. The larger scale present survey adequately covers this locality and therefore supersedes these surveys.

3. Comparison with Chart 923 (latest print date 8-3-43)

The shoreline details on the present survey were applied to the chart prior to this review. The inland details remain to be charted.

4. Condition of Survey

Satisfactory.

5. Compliance with Project Instructions

Satisfactory.

6. Additional Field Work Recommended

The present survey is a thoroughly complete and comprehensive survey and is therefore considered a basic survey.

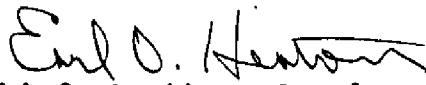
7. Superseded Surveys


T-2540 (1901)      in part  
T-4323 (1927)      "    "

Examined and approved:

  
Chief, Surveys Branch

Chief, Division of Charts

  
Chief, Section of Hydrography

  
Chief, Division of  
Coastal Surveys



## NAUTICAL CHARTS BRANCH

SURVEY NO. 6F76 *ast*

### Record of Application to Charts

[illegible]

M-215A-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.