DESCRIPTIVE REPORT

State        Puerto Rico

LOCALITY

Roosevelt Roads Naval Base

Paguee River

Project C. S. # 268

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
DECORATE OF COMMERCE
U. S. COAST AND GEOGRAPHIC 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. "H"

REGISTER NO. T6870

State Puerto Rico

General Locality Roosevelt Roads - East End near Ensenada Honda

Locality Roosevelt Roads Naval Base

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

Vessel Shore Party

Chief of party Ray L. Schoppe

Surveyed by J. P. Díaz

Inked by A. Deziel

Heights in feet above M. H. W. to ground 12/18/1941

Contour, interval 5 feet

Instructions dated May 20 (Radiogram) 1941

Remarks: Special survey for the Navy Department.

Alidade No. 247 was used on this sheet.
This sheet covers a part of Roosevelt Roads Naval Base. It is one of a series of thirteen sheets. This sheet covers the mangrove area at the mouth of the Daguao River and the hills on each side of this mangrove. This is one of several sheets that border Algodones Bay. For notes that apply to all of the sheets of the series, reference is made to the Descriptive Report for sheet "A", of this project.

(a) Descriptive.

The hills bordering the mouth of the Daguao River are over 200 ft. high. But higher hills are found close by—on either side. These steep-sided hills are characteristic of this region. North of the mangrove area, the Daguao River runs through some fine sugar cane fields. This flat land is shown on sheet "I".

On the hills on this sheet, there is some sugar cane, but this area is mainly, cleared pasture land.

(b) Landmarks.

There are no landmarks.

(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, FUERCA, CEIBA and PRIETO are a part of the adjusted third order scheme which covers Puerto Rico and the Virgin Islands.

On this sheet, topography is controlled by stations DELICIAS, GUAYACAN, SOUTH, ABRA, LOMA, VERDE, Mc CONNIE, and ORIENTE. Topographic signals ELM, GAL, MAY and PEG were located by theodolite cuts. Others were located by plane table cuts and were checked by resections. The elevation of station DELICIAS is the result of an unchecked line of spirit levels run by the Navy Survey Parties. This elevation was checked by vertical angles to water level and the value of 333.4 ft. was accepted as correct. The elevations of SOUTH, GUAYACAN, ABRA, LOMA and VERDE were computed from vertical angles and checked from rod readings on H. W. M. These values were then used for vertical control of the sheet. See notes in the descriptive report of sheet "A" for vertical control.

(d) Traverse.

Control listed above, was so located that traverse was reduced to a minimum. Practically all set-ups could be located by three point fixes. Few, and only short traverses were run between three point fix positions. If closure was greater than three meters, the line was re-run. If less, it was adjusted. No details were rodded from traverse points until the correct location and elevation was determined.
(e) Survey Methods.

When work on this sheet was started, the field party was not entirely untrained. Close supervision was necessary, and Lieut. Riddell planned to visit each party in the field at least once a day. The outer edge of the mangrove was located from a flat bottomed skiff and was plotted from sextant angles. From these positions, low water line was sketched. See notes in the descriptive report for sheet "A".

(f) Form lines.

No offshore verification of form lines was possible. Various aerial photographs 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 Practice.

See notes in Descriptive Report of Sheet "A".

(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.
(1) Plane table positions.

Plane table positions were not marked and will not be recoverable after the pole signals are destroyed. Marked triangulation stations may be recovered for any future work.

(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 in the Ensenada Honda and the Dagua River area, the prints are not distinct.

(n) Changes in shoreline.

The old work was on a small scale. No changes are noted.

(o) Marshes.

The mangrove area at the mouth of the Dagua River is marshy and is well defined except at the north end. Here a road has been built across the marsh and most of the
land north of the road is cultivated. For a few yards south of the road, the boundary between marsh and mangrove, and even the several river channels, are indistinct. The area is not important.

(p) Magnetics.

An observation by declinatoire near LCMA at 10:00 A.M., 60th Meridian Time, October 15, 1941, gives a value of 6°55' west. The average of eight observations on this project gives a mean value of 6°20' west.

(q) Statistics.

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<td>Roads</td>
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Respectfully submitted,

Officer in Charge
San Juan Magnetic Observatory
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Names underlined in red approved by L. Heck on 01/18/42.
MEMORANDUM
IMMEDIATE ATTENTION

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.

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Puerto Rico, Roosevelt Roads, Daguao River
Surveyed August - November 1941: Scale 1:4,800
Instructions dated May 20, 1941 (radiogram), project 268

Plane Table Survey

Chief of Party - Ray L. Schoppe
Surveyed by - J. F. Diaz
Inked by - A. Deszil
Reviewed by - Harold W. Murrey
Inspected by - H. R. Edmonston, August 23, 1944

1. Junctions with Adjacent Surveys

The junctions on the north, east and west with 1941 surveys T-6880, T-6877b, T-6878 and T-6881 are excellent.

2. Comparison with Prior Surveys

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

This survey covers all of the shoreline area and about half of the inland contoured area west of Daguao River. General agreement is good in some areas but in others differences of 70 meters are noted in mangrove limits, 40 meters in shoreline and in centers of prominent hills. The scattered occasional buildings or shacks shown on the old survey but not on the present survey are probably nonexistent, obscured by vegetation or otherwise deemed unimportant by the topographer. The present survey is adequate to supersede this survey.

3. Comparison with Chart 917 (New Print dated 2-25-44)

Shoreline details on the present survey have been applied to the chart prior to this review. The inland details remain to be added to the chart.
4. **Condition of Survey**
   Satisfactory.

5. **Compliance with Project Instructions**
   Satisfactory.

6. **Additional Field Work Recommended**
   This is a thoroughly complete and comprehensive survey, and it is therefore considered a basic survey.

Examined and approved:

Robert White
Chief, Surveys Branch

T. S. Corder
Chief, Division of Charts

Carl G. Hertwig
Chief, Section of Hydrography

Paul K. Moore
Chief, Division of Coastal Surveys
NAUTICAL CHARTS BRANCH

SURVEY NO. 6879

Record of Application to Charts

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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.