[redacted]

6878

Diag. Cht. No. 904

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

DESCRIPTIVE REPORT

CONFIDENTIAL

Topographic / ~~*Hydrographic*~~ *Sheet No.* T6878

Field Sheet "C" 1

State Puerto Rico

LOCALITY

~~Roosevelt Roads Naval Base~~
Point Algodones and Ensenada Honda

Project C. S. # 268

~~1942~~
1941

CHIEF OF PARTY

Ray L. Schoppe

U. S. GOVERNMENT PRINTING OFFICE

Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. T6878 CONFIDENTIAL

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. " G_1 "

REGISTER NO. T6878 CONFIDENTIAL

State Puerto Rico

General Locality ~~East End near Ensenada Honda~~ Point Algodones and Ensenada Honda

Locality Roosevelt Roads Naval Base.

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

Vessel Shore Party

Chief of party Ray L. Schoppe

Surveyed by R. H. Colon

Inked by R. H. Colon

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.

In order to complete the area at Cascajo Point, at the earliest possible date, this sheet, and sheet G_2 covering the same area were surveyed simultaneously.

Alidade No. 110 was used on this sheet.

110

PROJECT C. S. # 268

Field Number - Sheet "G 1" T-6878

and

Field Number - Sheet "G 2" T-6877b

Originally, it was intended to survey this area on one sheet. But Comdr. H. W. Johnson, C. E. C., U. S. N., Officer in Charge of Construction needed the topography of this region for use at the earliest possible moment. At his request, a second field party was set to work on Point Cascajo and sheet G 2 was laid out for them. These two sheets (T-6877b and T-6878) cover the same area and should be considered as one sheet.

These two sheets cover a part of Roosevelt Roads Naval Base. They are two, of a series of thirteen sheets. They cover the area on the southwest side of Ensenada Honda, and extend around Point Cascajo, Playa Blanca and Algodones Point to the eastern edge of Algodones Bay.

(a) Descriptive.

The topography of this area is extremely complicated. An incredible number of small steep sided hills rise from water level. Extensive areas of swamp and mangrove border these hills and fill most of the area between them. While most of this land is cleared pasture land, the roads and fences are all bordered by trees and bushes, and areas of scrubby brush abound. Much clearing of lines of sight was necessary. The hill on which DELICIAS is located

(elevation 333.4 feet) is the highest point on the rim of hills bordering Ensenada Honda. It is not distinctive because other near by hills are almost as high.

A fairly large population lives on the area covered by these sheets. Some of their shacks are pretty flimsy and are not shown on the sheets. Many of them work on the sugar cane fields which are close by, to the westward. Some of them seem to depend on fishing. There always seemed to be a small fleet of fishing boats in Playa Blanca. Their catch, if any, must have been landed at Naguabo Playa, or some other place. There seemed to be no facilities for landing or handling fish at Playa Blanca.

A rocky ledge extends some 250 yards south east of Point Cascajo. Rocky bluffs are noted on the south side of Point Cascajo, and also on the south side of Point Algodones.

(b) Landmarks.

Because of low land laying behind it, Point Cascajo is easily distinguished, but it would hardly be called a landmark.

(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 these sheets, the topography is controlled by stations, DELICIAS, GUAYACAN, SOUTH, ALGODON 2, POINT, HONDA and NORTH. The elevation of DELICIAS is the result of an unchecked line of spirit levels run by Navy Survey Parties. This elevation was checked by vertical angles to water level and the value of 333.4 feet was accepted as correct. Elevations of HONDA and two other near-by islands, and of Point Cascajo, are based on rod readings from H. W. M. The elevations of SOUTH and GUAYACAN are computed from vertical angles, and checked from rod readings on H. W. M. See notes in the descriptive report of Sheet "A" for vertical control. T-6872

Topographic signals DOG, HOP, JET, MAY and INDIAN ROCK were located from theodolite cuts. Signals CAT, GREEN, SAL and TAR were located by plane table cuts.

(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 these sheets was started, the field parties were 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". T-6872

(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.

φ 18° 13.43, λ 65° 38.25

At Indian Rock, it is probable that some additional detail could be shown on this scale. When field work was being closed up, an effort was made to send a party back to this station, but no boat was available.

Use detail on T-2539 (1901) in this area

(i) Deviation from Standard Practices.

See notes in Descriptive Report of Sheet "A". T-6872

(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 adjust-

ments were then necessary.

(k) Names.

The names of material objects on this sheet are well established and are accepted locally. No new names were 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 in the Ensenada Honda and the Daguao River area, the prints are not distinct. Some oblique photographs taken by the Navy in March 1941 were useful in checking detail on Point Cascajo.

(n) Changes in Shoreline.

None were noted.

(o) Marshes.

The marshes and mangrove swamps on the south west side of Ensenada Honda, are all shown on these two sheets. Point Cascajo and Point Algodones are practically islands. The swamp and mangrove extends from Algodones Bay through to a junction with Ensenada Honda. In the near future, the appearance of these marshy areas will be changed by extensive hydraulic fill.

(p) Magnetics.

An observation by declinatoire near GUAYACAN at 10:30 A. M. 60 th meridian time, October 15, 1941, gives a value of $5^{\circ}40'$ west. The average of eight observations on this project, gives a mean value of $6^{\circ}20'$ west.

(q) Statistics.

	G-1	G-2
Shore line	7.2 miles	5.2 miles
Roads	4.0 miles	0.5 mile
Creeks	0.0 mile	0.0 mile

Respectfully submitted,

Ray L. Schoppe

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

	Remarks	Decisions
1		182656
2		"
3		"
4		" U.S.G.R
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7	For title Ap 37924	182653-54
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GEOGRAPHIC NAMES

Survey No. T6878

CONFIDENTIAL

Name on Survey	On Chart No. A,	On previous survey No. B,	On U. S. quadrangle Maps C,	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Ensenada Honda										1
Playa Blanca										2
Point Cascajo										3
Point Algodones										4
										5
										6
Roosevelt Roads										7
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Names underlined in red approved by L. Heck on 6/18/42

M 234

FORM M-238

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT ~~PHOTOSTAT OF~~	~~No.~~ No. T T6878 CONFIDENTIAL	received April 20, 1942 registered April 23, 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
20			
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90			

RETURN TO

82	R. W. Knox

[illegible]

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF TOPOGRAPHIC SURVEY — REGISTRY NO. 6878

Field No. G-1

Puerto Rico, Roosevelt Roads,
Pt. Algodones and Ensenada Honda
Surveyed August - October 1941; Scale 1:4,800

Plane Table Survey — Aluminum Mounted

Chief of Party - Ray L. Schoppe
Surveyed by - R. H. Colon
Inked by - R. H. Colon
Reviewed by - Harold W. Murray
Inspected by - H. R. Edmonston, August 24, 1944

1. Junctions with Adjacent Surveys

Junctions with surrounding 1941 surveys T-6873, T-6874, T-6877b, T-6879 and T-6880 are excellent.

2. Comparison with Prior Surveys

T-2539 (1901) and T-2540 (1901), scales 1:10,000 and 1:20,000

These surveys taken together cover practically all of the present survey. General agreement of shoreline and mangrove limits is good. Considerable differences, however, are noted in contour delineations of the numerous hills and valleys in the inland area. The small open body of water (charted) in Lat. 18°12.5', Long. 65°38.55' was not defined by the topographer and is probably now filled with mangrove. The topographer was unable to complete the rock detail on the small point at Lat. 18°13.43', Long. 65°38.25' (see D.R., page 4). T-2539 may be used for charting purposes. With this exception, the larger scale present survey is adequate to supersede these older surveys.

3. Comparison with Charts 922 (latest print date 3- 6-44) 917 (latest print date 2-25-44)

Portions of the shoreline details on the present survey have been applied to the chart prior to this review. The remainder of the present survey remains to be applied.

4. Condition of Survey

Satisfactory.

5. Compliance with Project Instructions

Satisfactory.

6. Additional Field Work Recommended

This is a comprehensive large-scale survey and it is therefore adjudged a basic survey.

Subsequent construction or improvements for the Roosevelt Roads Naval Base surrounding Ensenada Honda may supersede the low-lying portion of the present survey.

7. Superseded Surveys

T-2539 (1901) in part

T-2540 (1901) " "

Examined and approved:

Robert W Knox
Chief, Surveys Branch

J S Bowden
Chief, Division of Charts

Earl O Heaton
Chief, Section of Hydrography

Chief, Division of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 6878

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
Dec '47	940	N. E. MacEwen	~~Before~~ After Verification and Review ✓ 8.✓
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

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.