

Diag Cht No 904

FORM 504 Rev. April 1935 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT  Topographic   Sheet No. T68C1  Hydrographic   Field Sheet "J"
U.S. COAST & GEODETIC SURVEY
APR 2 0 1942
Acc. No.
StatePuerto Rico
LOCALITY
Roosevelt Roads Naval Base
Quebrodas Botija + Palma
Project C. S. # 268
Ray L. Schoppe

DECLASSIFICATION BY NOAA

U. S. GOVERNMENT PRINTING OFFICE

PURSUANT TO DOC SYSTEMATIC REVIEW

GUIDELINES AS DESCRIBED IN SECTION

3.3 (a), EXECUTIVE ORDER 12356

#### 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. "J"

REGISTER NO. T6881

Alidade No. 215 was used on this sheet.

## PROJECT C. S. # 268 Field Number - Sheet "J" 7-4881

This sheet covers a part of the proposed Roosevelt Roads
Naval Base. It is one of a series of thirteen sheets. This
sheet covers the west slope of the hills between the Daguao
River and Quebrada Palma. It also covers the flat cultivated
cane fields and the dense swamp that border Quebrada Palma.

Algodones Cay is surveyed on Sheet "K", but the sandy islets
between Algodones Cay and the mangrove is surveyed on this
sheet. This is one of several sheets that border Algodones
Bay.

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.

Like all other sheets in this area, the steep sided hills on this sheet are not distinctive. They are mostly covered with cleared pasture land. The flats are planted in sugar cane wherever drainage permits. Land that is too low for drainage and cultivation is covered with a dense swamp of mangrove, tall grass and bushes. Good sized trees are formed on the edges of ditches and creeks. The southern edge of the mangrove area at the mouth of Quebrada

Palma is bordered by several long narrow sandy islands. They rise only a foot or two above M. H. W. and are little more than sand bars. Numerous cocoanut palms are found on these islands.

The road or trail that runs along the west side of Quebrada Palma is so bad that it is worthy of description. On horseback, it can be travelled without too much hazard. On foot, it is almost impossible because of deep, sticky mud holes. By means of a modern type of two wheeled ox cart, fitted with huge ballon tires, the owners transport light loads over this road. Large numbers of rocks and roots of trees make this method too rough for the transportation of instruments. We finally gave up trying to use the road, and changed to boat transportation for the survey of these sandy islands. Seldom can a "road" be found that is so nearly impassible. The ox cart described above, is a type commonly used in local cane fields where swampy conditions are encountered.

#### (b) Landmarks.

There are no landmarks on this sheet. See Rev., per. 3

#### (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.

On this sheet, topography is controlled by stations DON, ABRA, LOMA, VERDE, CANA, DAGUAO, COLINA, CURVA, VALLE, MONTIDA and STACK (Hacienda Grande). Topographic signals RAM, FAT, NEW, GAL, Windmill and Derrick were located by theodolite cuts. And signals LOG, LEN, BAD and CAN were poles, set up for temporary use and located and plotted by sextant angles. The outer edges of mangrove in this vicinity was located from them and then plotted by sextant angles taken from a pulling boat.

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.

When work on this sheet was started, the field party was not entirely untrained. But close supervision was maintained by Lieut. Riddell. It was planned that he visit each party at least once a day. (See notes in the Descriptive T-6872 Report for sheet "A".)

#### (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.

Several small sand bars lieing in the mangrove swamp, approximately 300 meters west of \( \triangle \) ABRA, were sketched. Their location was checked from aerial photographs. They appear to have a highwater line, but they are probably covered at extreme high water.

#### (i) Deviation from Standard Practices.

See notes in the Descriptive Report for sheet "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.

#### (1) 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 Dagueo River area, the prints are not distinct.

#### (n) Changes in Shoreline.

There are no changes in the shoreline of this sheet.

#### (o) Marshes.

The marshland on this sheet is described in the opening paragraph of this report.

#### (p) Magnetics.

On this sheet two observations by declinatoire were made. One, near CURVA at 11:00 A. M., 60th meridian time, November 8, 1941, gives a value of 6°20' west and one,—near COLINA at 8:30 A. M., 60th meridian time, October 15th gives a value of 7°00' west. The average of eight observations on this project gives a mean value of 6°20' west.

#### (q) Statistics.

Shoreline	2.1 miles
Roads	2.9 miles
Creeks	0.9 mile
Railroad	1.2 mile

Respectfully submitted,

Ray L. Schoppe, Lt.Comdy. O.S.C.&G.S

Officer in Charge

San Juan Magnetic Observatory

Remarks:

Decisions

1		181656
2		182656
3		181654
4		_
5		
6_	*	1
7	For title.	182653-54
. 8	·	
9	\* <b>*</b> *.	·
10		
11_		
_12		
_13		,
_14		
_15_		
_16		
17		
_18		
_19		
_20		
_21		
_22		
_23		
24		
_25		
26		
27		
M 234		

	GEOGRAPHIC NAMES Survey No. T686	G1	No. Of B	Project C.	2. Wode	S S S S S S S S S S S S S S S S S S S	Sudo Hoos	O. C. C.	H AND AND AND HAND HAND HAND HAND HAND H	Pros Ilan	5/
	Name on Survey	/ A,	B.	/ c,	D	E	F	G	/ H	/ K	
	Algodones Bay										1
	Quebrada Palma										2
•	Quebrada Bohija										3
	Augodones Cay										4
					k						5
											6
	Roosevelt Roads										7
					Names	underline	d in red	approved			8
		*			by L	Heck	- 0611	8142			9
				6					3		10
											11
											12
											13
											14
											15
											16
											17
				-							18
									-		19
											20
-											21
											22
											23
											24
											25
											26
		2									27
		-						-			M 234

# MEMORANDUM IMMEDIATE ATTENTION

	SURVEY DESCRIPTIVE REPOR <del>PROPOSTATOOR</del>	Γ ≻ ΄	ox <del>ll</del> d. T T6881 confidential	received April 20, 1942 registered April 23, 1942 verified reviewed approved
umn 3 as desired.	an acknowledgement that y	our attent immediat	ion has been thus directed. To	ters as indicated below. Please initial in col- he complete original records are available if e, and forward to the next section marked,
ROUTE		Initial	Attent	ion called to
20				
22				
24				
25				
26				
30				
40				
62	,			
63				
82				
83				
1_				

RETURN TO

82 R. W. Knox

88

#### DIVISION OF CHARTS

#### REVIEW SECTION - SURVEYS BRANCH

#### REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. 6881

Field No. J

Puerto Rico, East End, near Ensenada Honda, Quebradas Botija and Palma 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. F. Emannueli Inked by - R. Colon Reviewed by - Harold W. Murray Inspected by - H. R. Edmonston, August 22, 1944

#### 1. Junctions with Adjacent Surveys

The junctions on the north, east, south and west with 1941 surveys T-6880, T-6879, T-6882 and T-6876b are excellent.

The northwest limit of the present survey is the limit of the present project.

#### 2. Comparison with Prior Surveys

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

Topographic details on this survey are primarily confined to shoreline and these are adequately covered by the larger scale present survey. The present survey supersedes this earlier survey.

### 3. Comparison with Charts 917 (latest print date 2-25-44) 923 (latest print date 8- 3-43)

The shoreline details on the present survey have been applied to the chart prior to review. The inland details, however, remain to be applied.

The charted stack (landmark) on Chart 917 in Lat. 18°13.05', Long. 65°41.19' falls in a sugar cane field and is not shown on the present survey. The stack

appears to be an incorrect charting of one located on T-2540 (1901) because if the coordinates of the stack on this survey are divided by two, the position will agree exactly with that charted. It is moreover noted as a coincidence that a range drawn through these two positions and extended slightly over 1/2 mile northwestward will approximately agree with a stack located by the 1941 triangulation party. As regards charting, both the charted stack and the one on T-2540 are considered nonexistent in the positions now shown for the reason that if it were in existence it would be prominent as a landmark and would have been located either by the triangulation party of 1941 or the topographer and in particular the latter since it would be helpful for orientation purposes. The stack on the present survey was not recommended as a landmark by the Chief of Party (see D.R., page 2).

The delineation of the charted reef in Lat. 18°11.9', Long. 65°40.9' originates with H-2582 (1902) and should be retained.

4. Condition of Survey

Satisfactory.

5. Compliance with Project Instructions

Satisfactory.

6. Additional Field Work Recommended

This is a thoroughly complete and satisfactory survey. It is therefore adjudged a basic survey.

7. Superseded Surveys

T-2540 (1901) in part

· - }

Chief, Surveys Branch

Examined and approved:

Chief. Division of Charts

Chief, Section of Hydrography

Chief, Division of Coastal Surveys

#### NAUTICAL CHARTS BRANCH

SURVEY NO. 6881

#### Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS	
Jan 48	940	Hruae Ewen	Bufore After Verification and Review	r gar
			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.