6786

RESTRICTED

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Form 504
Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic } *Sheet No.* E
~~*Hydrographic*~~ }

State British West Indies

LOCALITY

Antigua Island

Guana Island

1940-41

CHIEF OF PARTY

H.Arnold Karo

U.S. GOVERNMENT PRINTING OFFICE: 1934

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RESTRICTED

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Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. T6786 RESTRICTED

State BRITISH WEST INDIES

General locality ANTIGUA ISLAND

Locality GUANA ISEAND

Scale 1:4800 Date of survey January, 1941

Vessel U.S.C.& G.S.S. LYDONIA

Chief of party H. Arnold Karo

Surveyed by Fred A. Riddell

Inked by Fred A. Riddell

Heights in feet above H.W. to ground ~~xxxtopsxxxxxxxxx~~

Contour, Approximate contour, Form line interval ____ feet

Instructions dated November 9, 1940

Remarks: Special Surveys Project HT-259

o r o

DESCRIPTIVE REPORT TO ACCONPANY

T-6786

TOPOGRAPHIC SHEET "E"

GUANA ISLAND ANTIGUA ISLAND

B.W.I.

The work on this sheet was accomplished in conjunction with the work called for in instructions of November 9, 1940, Project HT-259, Special Surveys in the Caribbeam area

CONTROL

The control consisted of third order triangulation established in 1940 in accordance with the instructions mentioned above.

SURVEY METHODS

Standard topographic practices were followed. Most of the signals were located by three intersection cuts taken either from triangulation stations or from three point fix positions. As the principal purpose of the sheet was to locate signals for hydrography the delineation of the shoreline was not done in very great detail. Most of the set-ups along Guana Island were in the water and rod readings were taken on the highwater line wherever it was visible but in the swampy areas the outer edge of the mangrove was the line which was delineated. No effort was made to penetrate the swamps in order to determine their depth. No traverses were run. As the east side of Great Bird Island is practically a vertical stone wall it was not possible to traverse and rod the shoreline. The ridge line on the top was determined and cuts were taken to the shore

line wherever possible. From these cuts the shoreline was sketched. The dashed lines between the islands indicating coral reefs also were sketched.

GENERAL DESCRIPTION

The shoreline along Guana Island from triaggulation station Paul to triangulation station Barnes is fringed with overhanging bushes and mangrove. Great Bird Island as mentioned above has a practically vertical, very irregular and broken stone wall on the east side. The narrow strip connecting this eastern part of the island with the western wooded part is low and has sand beaches on the north and south sides. Red head Island and Rabbit Island look like wooded mounds. The other islands to the eastward are little more than rocky reefs. Hole Gate Island is composed of honeycombed rock and on the southern end is a prominent natural bridge.

LANDMARKS

There are no landmarks in the area covered by this sheet.

LIST OF TRIANGULATION STATIONS

BARNES	1940
BIRD	1940
CRAB	1940
GREAT	1940
GUARD	1940
GUANA	1940
PAUL	1940
RABBIT	1940

LIST OF TOPOGRAPHIC SIGNALS

NAME	DESCRIPTION	NAME	DESCRIPTION
Adam	Banner	Jim	Banner
Ben	"	Luke	"
Boat	"	Miss	"
Bus	"	Mag	"
Care	Whitewash	Nat	"
Carl	Banner	Oil	"
Dan	"	Pal	"
Ed	"	Rat	"
Eve	"	Say	"
Ex	Whitewash	Sid	"
Fad	Banner	Tar	"
Fly	Whitewash	Use	"
Gat	"	Vet	"
Gem	Banner	Yes	"
Hog	"	Zee	"
Ida	"		
Ice	"		

Banner signals are small white cloth banners secured to trees and bushes. They are not recoverable.

GEOGRAPHIC NAMES

NAMES	AUTHORITY
BARNES PT.	ADMIRALTY CHART 2066
EXCHANGE I.	" " "
GALLEY I.	HENRY MARTIN ADAMS MAP OF 1891
GREAT BAY	ADMIRALTY CHART 2066
GREAT BIRD I.	" " "
GUANA COVE	" " "
GUANA I.	" " "
GUARD PT.	" " "
HALE GATE	" " "
LOBSTER I.	" " "
PALS BAY	" " "
RABBIT I.	" " "
REDHEAD I.	" " "

Respectfully submitted

Fred A. Riddell

Fred A. Riddell, Lieut.(jg)
C.& G.S.

Approved and Forwarded

H. Arnold Karo

H. Arnold Karo, Commanding Officer
Ship LYDONIA

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY

Register No. 6786 (1941)
Field No. E

British West Indies, Antigua Island, Guana Island
Surveyed January 1941, Scale 1:4,800
Instructions dated November 9, 1940 (LYDONIA)

Plane Table Survey

Aluminum Mounted

Chief of Party - H. A. Karo
Surveyed and inked by - F. A. Riddell
Reviewed by - J. A. McCormick
Inspected by - H. R. Edmonston, September 30, 1941

1. Adjoining Surveys

The junction with T-6781 (1941) on the west is satisfactory. There is no actual shoreline connection with T-6785 (1941) on the north and the project does not extend any farther east.

2. Previous Surveys

British surveys of the area are not available for comparison.

3. Comparison with H. O. Chart 1004 (Corrected to February 1941 ~~1940~~) British Admiralty Chart 918

Charted information, compiled from British surveys of 1848-63, differs from the present survey only in minor detail. Agreement is much better than would ordinarily be expected.

4. Condition of Survey

Satisfactory.

5. Compliance with Project Instructions

Excellent.

6. Additional Field Work Recommended

None.

Examined and approved:

Chief, Surveys Section

Chief, Division of Charts

Chief, Section of Hydrography

Chief, Division of Coastal Surveys