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

DESCRIPTIVE REPORT

Topographic Sheet No. E

State: British West Indies

Locality
Antigua Island
Guana Island

1930-41

Chief of Party
H. Arnold Karo
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. T6786 • RESTRICTED

State
BRITISH WEST INDIES

General locality
ANTIGUA ISLAND

Locality
GUANA ISLAND

Scale 1:4800
Date of survey January 1941

Vessel U.S.C.G.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

Contour, Approximate contour, Form line interval
feet

Instructions dated November 2, 1940

Remarks: Special Surveys Project BT 252

SPD
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 Caribbean 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 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 triangulation 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. Hola 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

<table>
<thead>
<tr>
<th>Station</th>
<th>Year</th>
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<tbody>
<tr>
<td>Barnes</td>
<td>1940</td>
</tr>
<tr>
<td>Bird</td>
<td>1940</td>
</tr>
<tr>
<td>Crab</td>
<td>1940</td>
</tr>
<tr>
<td>Great</td>
<td>1940</td>
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<tr>
<td>Guard</td>
<td>1940</td>
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<tr>
<td>Guana</td>
<td>1940</td>
</tr>
<tr>
<td>Paul</td>
<td>1940</td>
</tr>
<tr>
<td>Rabbit</td>
<td>1940</td>
</tr>
<tr>
<td>NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>Adam</td>
<td>Banner</td>
</tr>
<tr>
<td>Ben</td>
<td>&quot;</td>
</tr>
<tr>
<td>Boat</td>
<td>&quot;</td>
</tr>
<tr>
<td>Bus</td>
<td>&quot;</td>
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<tr>
<td>Care</td>
<td>Whitewash</td>
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<tr>
<td>Carl</td>
<td>Banner</td>
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<tr>
<td>Dan</td>
<td>&quot;</td>
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<tr>
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<td>&quot;</td>
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<tr>
<td>Eve</td>
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<tr>
<td>Ex</td>
<td>Whitewash</td>
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<tr>
<td>Fad</td>
<td>Banner</td>
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<tr>
<td>Fly</td>
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<tr>
<td>Gem</td>
<td>Banner</td>
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<td>Hog</td>
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<tr>
<td>Ida</td>
<td>&quot;</td>
</tr>
<tr>
<td>Ice</td>
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</tbody>
</table>

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

NAMES

BARNES PT.
EXCHANGE I.
GALLEY I.
GREAT BAY
GREAT BIRD I.
GUANA COVE
GUANA I.
GUARD PT.
HALT GATE
LOBSTER I.
PA LS BAY
RABBIT I.
REDHEAD I.

AUTHORITY

AD'IRALTY CHART 2066
" " "
HENRY MARTIN ADAMS MAP OF 1891
AD'IRALTY CHART 2066
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Respectfully submitted

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

Approved and Forwarded

H. Arnold Karo, Commanding Officer
Ship LYDORIA
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)
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