

6781
RESTRICTED

Photostatic Copy, original sent to Navy Dep't. NOV 3 - 1941

6781
RESTRICTED

Form 504 Rev. Dec. 1933	
DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR	
DESCRIPTIVE REPORT	
Topographic } Hydrographic	Sheet No. A
State British West Indies	
LOCALITY	
Antigua Island	
Crabbs Peninsula	
1941	
CHIEF OF PARTY	
H. Arnold Karo	

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. A

REGISTER NO. **T6781** RESTRICTED

State British West Indies

General locality Antigua Island

Locality Crabbs Peninsula

Scale 1:4800 Date of survey January, 1941

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

Chief of party H. Arnold Karo

Surveyed by F. A. Riddell

Inked by F. A. Riddell

Heights in feet above H.W. to ground ~~to tops of trees~~

Contour, ~~Approximate contour~~ interval 5 feet

Instructions dated November 9, 1940

Remarks: Special Surveys Project HT 259

DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEET "A" T-6781

CRABBS PENINSULA, ANTIGUA I.
B.W.I.

The work on this sheet was accomplished in accordance with ✓
instructions dated November 9, 1940, Project HT 259.

CONTROL

The horizontal control consisted of third order triangulation ✓
established in 1940 under the instructions mentioned above.

The vertical control was furnished by loops of spirit levels
run from the tide staff at Parham. Bench Marks consisted of two ✓
by four stakes protruding about a foot and a half above the ground.
Elevations were taken to nails driven in the top of the stakes.

SURVEY METHODS

Standard topographic practices were followed. Signals were
located by three intersecting cuts taken either from triangulation ✓
stations or from three point fix positions. Few and only short
traverses were run as it was possible to rod most of the detail from
three point fix positions. A traverse was run from triangulation
station NORTH around the shore to a three point fix position above
signal Bagand then continued around to triangulation station GUARD.
The closing error was less than a meter and no adjustment was made. ✓
A traverse was run from triangulation station MID to triangulation
station UNBRELLA which failed to close by three meters. This error

was adjusted. To locate the boundary line a traverse was run from a three point fix position (later occupied and named triangulation station HILL) to stake 1c, to stake 2, to stake 3, to stake 4, and back to the three point fix position. The closing error on this traverse was two meters which was adjusted.

The outer edge of the mangrove and the high water line where visible from the water were carefully determined by rod readings. The high water line back of the mangrove was determined by rod readings wherever possible. The portions shown by dashed lines were ~~sk~~ sketched as it was not possible to take rod readings on account of the thick vegetation.

The bench marks (shown in red and numbered in black) with the exception of 62 and 68 to 82 inc. were located on sheet A' and transferred to this sheet. Elevations were determined by vertical angles with stadia distances. The H.I. was determined from the BM stakes. Contouring was done in the field.

GENERAL DESCRIPTION

The peninsula with the exception of the three hills on the north end is low and rolling. Most of the area is under cultivation. No field lines were run as they are irregular and the fields consist of small patches of cotton and sugar cane. The uncleared areas principally on the hills at the north end and inshore from the swamps on the south end are indicated by the woodland symbol. The vegetation consists of low trees (15 to 20 feet in height) with thick and in places impenetrable underbrush and bushes. All of the west shore is fringed with mangrove and overhanging bushes. The east shore is more bold with a four to six foot bank covered by overhanging bushes. The

swamps have thick impenetrable outer growth of mangrove with varying vegetation and open water areas into the high water line. The demarcation between swamp and fast ground is very indefinite and depends to a large extent on interpretation. The three hills at the north end are rocky on the shore sides and rise abruptly from the waters edge.

LANDMARKS

St. Peters Church Spire

LIST OF TRIANGULATION STATIONS

BARNES	1940	NORTH	1940
CRAE	1940	PARHAM	1940
CENT	1940	POINT	1940
DEN	1940	RAT	1940
GUARD	1940	ST. PETERS CHURCH SPIRE	1940
HAND	1940	STAMP 5	1940
HILL	1940	UMBRELLA	1940
MID	1940		

LIST OF TOPOGRAPHIC SIGNALS

NAME	DESCRIPTION	NAME	DESCRIPTION
Ale	Banner	Nox	Banner
All	"	Nod	"
Abe	"	Old	"
Ate	"	Pug	"
Any	"	Pro	"
Bag	"	Port	Whitewash
Bat	"	Pop	Banner
Cab	"	Rag	"
Cat	"	Rex	"
Can	"	Run	"
Dot	"	Sam	"
Dog	"	Set	"
Eat	Whitewash	Sit	"
Far	Banner	Tim	"
Fun	Whitewash	To	"
Got	Banner	Uke	"
Hid	"	Vim	"
Joy	"	War	"
Jot	"	Zeb	"
Lab	Whitewash	Zoo	"
Wu	Banner on pole		
Mad	Banner		

GEOGRAPHIC NAMES

NAME	AUTHORITY
BARNES PT.	ADMIRALTY CHART 2066
CRABBS PENINSULA	LOCAL USAGE
CRABBS PT.	" "
GUARD PT.	ADMIRALTY CHART 2066
HAND PT.	LOCAL USAGE
MAIDEN I.	JOHN LUFFMAN MAP OF 1787-88
MOUSE I.	ADMIRALTY CHART 2066
NORTH SOUND PT.	" " "
NORTH SOUND	" " "
PARHAM	" " "
PARHAM HARBOUR	" " "
RAT I.	" " "
THE NARROWS	" " "

Respectfully submitted

Fred A. Riddell
 Fred A. Riddell, Lieut. (j.g.)
 U.S. N.

Approved and Forwarded

H. Arnold Karo
 H. Arnold Karo, Commanding Officer
 Ship LYDONIA

ELEVATIONS OF BENCH MARKS

CRABBS PENINSULA

ANTIGUA ISLAND

A.M.I.

<u>STATION</u>	<u>ELEVATION</u>	<u>STATION</u>	<u>ELEVATION</u>	<u>STATION</u>	<u>ELEVATION</u>
1	13.462	35	13.840	69	18.746
2	12.631	36	17.652	70	9.299
3	9.173	37	22.593	71	6.385
4	6.380	38	18.641	72	16.439
5	11.086	39	17.083	73	17.503
6	15.630	40	17.875	74	27.648
7	13.374	41	26.131	75	39.680
8	12.316	42	22.031	76	30.477
9	14.398	43	15.025	77	20.155
10	20.350	44	10.358	78	10.661
11	26.947	45	7.759	79	3.062
12	29.016	46	9.628	80	6.632
13	32.256	47	7.832	81	13.019
14	33.641	48	11.733	82	16.559
15	31.056	49	20.680	83	14.392
16	33.560	50	15.545	84	18.752
17	33.129	51	3.655	85	23.705
18	24.454	52	10.917	86	29.986
19	18.029	53	9.889	87	26.179
20	11.922	54	15.154	88	18.741
21	7.356	55	24.399	89	31.811
22	6.505	56	42.476	90	24.288
23	9.812	57	42.752	91	17.166
24	9.846	58	51.334	92	11.857
25	8.090	59	21.498	93	14.786
26	10.803	60	9.287	94	16.698
27	8.756	61	9.212	95	19.377
28	12.124	62	6.917	96	19.752
29	16.012	63	19.163	97	11.332
30	6.925	64	27.120	98	1.692
31	11.917	65	15.561	99	7.426
32	14.613	66	10.307	100	16.739
33	15.437	67	XXXXX	101	6.739
34	10.911	68	30.257	102	6.009

CHART DIVISION

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY NO. 6781 (1941) FIELD NO. A

British West Indies, Antigua Island, Crabbs Peninsula
Surveyed in 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

Excellent junctions were effected with T-6783 (1941) on the southwest and with T-6786 (1941) on the east. A considerable portion of the detail in the interior of the peninsula is not original with the present survey but was transferred from T-6782 (1940). The resulting composite is more suitable than two partial surveys of the same area.

2. Previous Surveys

British surveys of the island are not available for comparison.

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

Charts of the area were compiled from British surveys of 1848 and 1863. Shoreline is still substantially as charted. Interior detail is a minor feature of the charts and cannot properly be compared with the close detail of the survey.

4. Condition of Survey

Satisfactory.

5. Compliance with Project Instructions

Excellent.

6. Additional Field Work Recommended

None.

T-6781 (1941) - 2

Examined and approved:

Robert W. Knox,
Chief, Surveys Section

Chief, Division of Charts

Chief, Section of Hydrography

Chief, Division of Coastal
Surveys