DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Virgin Island

DESCRIPTIVE REPORT.

Locality:
St. Croix Island
East End

Chief of Party:
Colin R. Hand
DESCRIPTIVE REPORT

(to accompany topographic sheet "K", St. Croix, Virgin Islands, 1921.)

Eoline R. Hand, C. of Party

This is sheet "K". It is the eastern end of a sheet left unfinished by O.W. Swainson (office number 3800) the accomplishment of which was called for in my instructions of October 23, 1921 (7-M-35). It embraces the extreme eastern end of the island of St. Croix, Virgin Islands.

2. The shoreline of this depicted area is alternating beach and low cliff, fringed by coral. Inside of this reef there is for the most part rather deep water, offering some protection to small craft; in fact I believe that at one point, Tague Bay, steamers of light draft could anchor, entering behind the reef through the break about a mile west. The smooth, time-worn hills rise with gradually increasing steepness from the low shores and the rather extensive vallies. The entire area shown — with the exception of the valley flats close to shore — is covered densely with a drab appearing growth of sage, thornbush and cactus, making it impossible to pass any place without the aid of a caneknife. But the vivid green of the dense and healthy bush growth in these above-mentioned flats offers to the eye a pleasing contrast. These low bottom areas have been indicated by what is meant to approximate the brush symbol.

3. There is a good automobile road on the north side, penetrating to Cotton Valley; a good road also runs to below the old mill tower at Cotton Grove on the south side; and from here a cart road continues east to Grass Point. In quite early days the roads ran much farther, but time has obliterated all but the merest traces. A poorly defined trail from the beach at Grapetree Bay to the valley between Cotton Garden and Tague Bay offers a means of passing across the island.

4. This is a deserted and nearly barren country. It is parched and dry, being almost constantly wind-swept, and there is no water except a poor quality of brackish drawn up by the fannillas shown at west end of work, and operated for stock; for what seems to me rather unsuccessful attempt is made to raise cattle in and about Cotton Grove, and west of Cotton Valley. But there is no grass, and this together with the heat and the lack of good water keeps the pitiful beasts reduced to mere bags of skin and bones. Yellow Jersey's lose their characteristic coloring; the parched skin becomes an unhealthy slate color from these adverse conditions. However, west of the west edge of my topography shown conditions improve rapidly; there is good grazing and the soil is productive.

5. Not a man living remembers to have seen any part of this end under cultivation though at one time it is known there was agricultural activity in the big vallies. The number of ruins attest this as do also the interesting items of a business and social nature about this section to be read in the Christiansted newspaper of a century ago. But economic problems forced the abandonment of what must have been at least an up-hill fight. No boundaries are shown because they have long since fallen into disuse; no one knows where they were. As intimated at beginning of paragraph four there are no people living here except a negro or two at Cotton Grove, and possibly a caretaker at Osckley Bay estate house.

6. Buck Island is same kind of country — barren waste and no water.

Eoline R. Hand
Topographer and Chief of Party
### PLANETARY POSITIONS on THE ISLAND OF ST. CROIX, VIRGIN ISLANDS.

**EOLINE R. HANDEL, Chief of Party, 1921.**

(sheet "K", east end)

<table>
<thead>
<tr>
<th>Object &amp; Description</th>
<th>Latitude</th>
<th>D.M.</th>
<th>Longitude</th>
<th>D.P.</th>
<th>Ht., Feet</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apt: patch of white paint on cliffs, center of north side of Buck Island</td>
<td>17 47</td>
<td>914 (950)</td>
<td>64 37</td>
<td>551 (1216)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mid: patch of white paint on cliffs, on south shore Buck Id. 1/2 mile W. of E. end</td>
<td>17 47</td>
<td>392 (1452)</td>
<td>64 37</td>
<td>175 (1592)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tree: large bushy tree, top of Buck Id.</td>
<td>17 47</td>
<td>612 (1232)</td>
<td>64 37</td>
<td>272 (1495)</td>
<td>320</td>
<td></td>
</tr>
<tr>
<td>Dome: domelike hilltop in center ridge, just south of Solitude and Cottle Valley Mill Towers and a scant mile east of the slightly higher hill, Station Seven</td>
<td>17 44</td>
<td>1144 (590)</td>
<td>64 27</td>
<td>1303 (464)</td>
<td>836</td>
<td></td>
</tr>
<tr>
<td>Log: on the east corner of blunt square point at east side Tague Bay, marked with plate set in ledge</td>
<td>17 45</td>
<td>1022 (822)</td>
<td>64 35</td>
<td>1709 (53)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>End: a plate in the concrete block set in the slope on extreme east end of St. Croix Id.</td>
<td>17 45</td>
<td>785 (1059)</td>
<td>64 33</td>
<td>25-35 (94)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Object &amp; Description</td>
<td>Latitude</td>
<td>D. H. Long.</td>
<td>B. P.</td>
<td>Ht.</td>
<td>Remarks</td>
<td></td>
</tr>
<tr>
<td>----------------------</td>
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<td>---------</td>
<td></td>
</tr>
<tr>
<td>Tom: plate in concrete block set on highest part of grassy point making out sharply from south shore, 3 miles west of east end</td>
<td>17 44 183 64 36 11 34 43</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lee: plate in cliff, extreme S. E. corner of prominence 1150 feet west of grassy point</td>
<td>17 44 60 64 37 522 5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
LANDMARKS FOR CHARTS

U. S. Coast Survey Office, Washington, D. C.

July 20, 1921.

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

Eoline R. Hand, H. A. G. Engineer
Chief of Party.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD OF DETERMINATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree - bushy tree on highest point of Back Ed.</td>
<td>17° 47'</td>
<td>64° 37'</td>
<td>Table.</td>
<td></td>
</tr>
<tr>
<td>Coakley Bay</td>
<td>17° 45'</td>
<td>65° 38'</td>
<td>Triangulation.</td>
<td></td>
</tr>
<tr>
<td>Solitude*</td>
<td>17° 45'</td>
<td>64° 37'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cotton Valley*</td>
<td>17° 45'</td>
<td>64° 37'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cotton Grove*</td>
<td>17° 43'</td>
<td>64° 38'</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Prominent stone towers, 30 to 40 feet high, form of truncated cones. (In early times were great windmills for grinding corn.)

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance. The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
WASHINGTON

SECTION OF FIELD RECORDS
REPORT ON TOPOGRAPHIC SHEET NO. 3837.
Surveyed in 1921.

Chief of Party:  E. R. Hend.

Surveyed and inked by E. R. Hend.

1. The records conform to the requirements of the General Instructions.

2. The plan and character of the survey fulfill the requirements of the General Instructions.

3. The plan and extent of the survey satisfy the specific instructions.

4. The field drafting prescribed by General Instructions was completed by the surveyor.

5. The junction with the adjoining sheet is satisfactory.

6. No further surveying is required within the limits of the sheet.

7. The character of the surveying and field drafting is excellent.

8. Reviewed by E. F. Ellis, December, 1921.
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U.S. Coast and Geodetic Survey.

Register No. 3837 (field letter "K")

State: Virgin Islands

General locality: Island of St. Croix, east end

Locality: east end

Chief of party: Eoline R. Hand

Surveyed by: 

Date of survey: April - May, 1921

Scale: 1:10000

Heights in feet above m.h.w.

Contour interval: 20. feet

Inked by: Eoline R. Hand

Lettered by: H.E. Mac Ewen

Records accompanying sheet (check those forwarded): 

Descriptive report, List of Positions, Landmarks for Charts

Data from other sources affecting sheet

Remarks: Small area of contouring south of stations SEVEN and Dome inked by Mac Ewen.
Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Virgin Islands

DESCRIPTIVE REPORT.

LOCALITY:

St. Croix Island

Buck Island

1924

CHIEF OF PARTY:

J. C. Mathias
SKETCHBOOK

ABSTRACT OF CONTENTS:

1. Sketches and Records.
2. Topographic Map.
3. Change in Shoreline.
4. Topographic Sheet.
5. Additional Information.

Date: 1891

CHIEF OF PARTY:

G. C. Mathiasen
at Crab

Fny 1 36-47
Snl 34-21

at Crab

Fny 32-24
Snl 43-43
AC

\[ \text{Sup} \]
\[ \text{B} \]

\[ \text{37.16} \text{/ dist.} 51.6 \checkmark \]

\[ \text{at B} \]

\[ \begin{align*}
\text{Sup} & : 6 - 0.0 \\
\text{L} & : 11 - 7.9 \\
\text{D} & : 45 - 2.2 \\
\text{A} & : 11 - 3.9 \\
\text{C} & : 8 - 14 \\
\end{align*} \]

\[ \text{H} \]

\[ \begin{align*}
\text{14} & \geq 15 \text{ m} & : 7.54 \\
25.9 & \leq 11 & : 10.44 \\
14 & : 10 - 12.3 \\
9 & : 4.3 \\
2.3 & : 7 \\
0 & : 7 - 12.0 \\
N & : + 3.6 - 11.0 \\
N & : + 2.5 - 12.0 \\
\end{align*} \]
<table>
<thead>
<tr>
<th></th>
<th>at F</th>
<th>39-12</th>
<th>72-57</th>
<th>1.8-22.8</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td>312-00</td>
<td>97-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>342-40</td>
<td>22-30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>161-14</td>
<td>50-2</td>
<td></td>
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</tr>
<tr>
<td>J</td>
<td>243-16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>80-00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>42-46</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>75-54</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>103-33</td>
<td>5580</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Descriptive report to accompany
Revision of part of shoreline of Buck Island, St. Croix Island, Virgin Islands.

Change of shore line:

A recession in shoreline was found approximately 100 meters SE of Crab and a growth approximately 250 meters SE of Crab.

The shore is sandy and exposed to the south so as to make it changeable in heavy weather.

Where the shoreline has receded there is evidence of sand being piled up and where it grew it is evidenced by the fact that the sand makes off to a low sandy point.

This is the only sandy stretch on Buck Island and from general reconnaissance it seems to be the only part that has changed.

Method of Survey:

A theodolite traverse line was run from Crab to Bay. Bay was located by sextant angles, they are, Grell 31-19, Sol, Kid 82-22. Lamb and Kid almost on range.

Set ups along the traverse line were checked by three point fixes, using Dry, Sol, Tague.

The traverse was closed on Bay within an allowable error.

Instructions dated June 22, 1923.

Augustus P. Ratti
Augustus P. Ratti.

Forwarded:

J.C. Wattison,
Commanding.
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

October 14, 1924.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 3837a

Buck Island, Virgin Islands

Surveyed in 1924

Instructions dated June 22, 1923.

Chief of Party, G. C. Mattison.

Surveyed by A. P. Ratti.

Inked by field party.

1. The records conform to the requirements of the General Instructions except for the omission of the title sheet.

2. The character of the survey satisfies the General Instructions and the extent satisfies the specific instructions.

3. The junction with the previous survey is satisfactory and no additional work is required.

4. The character of the surveying and field drafting is good.

5. Reviewed by E. P. Ellis, October, 1924.
The finished topographic sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3837-A

State: Virgin Islands
General locality: St. Croix Island
Locality: Buck Island
Chief of party: G. C. Mattison
Surveyed by: A.P. Ratti
Date of survey: July 29, 1934
Scale: 1:10,000
Soundings in: ...
Plane of reference: ...
Protracted by: Soundings in pencil by ...
Inked by: Verified by ...
Records accompanying sheet (check those forwarded):
Des. report, Tide books, Marigrams, Boat sheets,
Sounding books, Wire-drag books, Photographs.
Data from other sources affecting sheet...

Remarks: Division of shoreline extending from A Cud (on western extremity of Buck Island) to C Bay (on shoreline and approach 0.45 Stat. mile in a straight direction).