

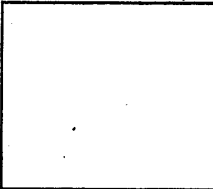
4653b

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

....., Director



State: Virgin Is. ....

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. <sup>6</sup> 4653b  
Hydrographic }

LOCALITY

St. Croix Island

W. End of Island

1925

CHIEF OF PARTY

G. C. Mattison

4653b

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

~~HYDROGRAPHIC~~ WIRE DRAG TITLE SHEET

# 6

The finished Hydrographic 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. <sup>4653b</sup> 4653b

State . . . . . VIRGIN ISLANDS . . . . .

General locality . . . . . ST. CROIX ISLAND . . . . .

Locality . . . . . WEST END of Island . . . . .

Chief of party . . . . . G. C. MATTISON . . . . .

Surveyed by . . . . . C. K. GREEN . . . . .

Date of survey . . . . . JUNE 1926 . . . . .

Scale . . . . . 1:20,000 . . . . .

Soundings in . . . . . Feet . . . . .

Plane of reference M. T. L. -0.5 ft. . . . .

Protracted by W.R.P. . . . . Soundings in pencil by W.R.P. . . . .

Inked by . . . . W.R.P. . . . . Verified by . . . . A. L. Shalowitz . . . . .

Records accompanying sheet (check those forwarded):

Des. report, \_\_\_\_\_ Tide books, \_\_\_\_\_ Marigrams, 1 Boat sheets,

2 Sounding books, 3 Wire-drag books, \_\_\_\_\_ Photographs.

Data from other sources affecting sheet . . . . .

Hydrographic Sheet #6 of same locality.

Remarks: *Last received June 18, 1927*

4653b

APR 26 8 59 AM '27

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DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY,  
E. LESTER JONES, DIRECTOR.

VIRGIN ISLANDS

A DESCRIPTIVE REPORT  
to accompany  
WIRE DRAG SHEET # 6

1925

S.S. RANGER

G.C. MATTISON,  
CHIEF OF PARTY.

DESCRIPTIVE REPORT  
to accompany  
WIRE DRAG SHEET # 6

ST. CROIX ISLAND.

This work was done in accordance with Director's instructions dated June 8, 1923 and supplemental instructions dated May 28, 1925. The work was started on June 15, 1925 and completed June 26, 1925. Lieuts. Green and Finnegan had charge of the Guide launch and End launch respectively.

The dual control system was used, with launches "MARINDIN" and "MITCHELL" and tender "EDNA M". Standard drag equipment was used. Some difficulty was experienced in the work south and southwest of St. Croix due to a strong northwesterly current and to the difficulty of seeing signals. The visibility was especially poor in the mornings. It was also difficult to obtain drag tests due to strong wind and two to three foot swells. The swell was noted at all times and a correction applied to the drag depth.

Small coral heads in Fredricksted anchorage and Fredricksted roadstead made it difficult to obtain least depths, as it is almost impossible to obtain soundings on this type of coral. Hence the soundings obtained here were mostly greater than the drag depth.

No shoals of importance were found.

The following shoals were located by the drag.

A depth of 76 feet was found 0.8 miles  $355^{\circ}$  true from Butlers Bay Mill in Lat.  $17^{\circ} 45'$  - 1237 meters, Long.  $64^{\circ} 53'$  - 1188 meters.

A depth of 23.5 feet was found 0.4 miles  $262^{\circ}$  true from Williams Mill in Lat.  $17^{\circ} 44'$  - 71 meters, Long.  $64^{\circ} 53'$  - 1230 meters.

A depth of 25.5 feet was found 0.4 miles  $262^{\circ}$  true from Williams Mill in Lat.  $17^{\circ} 44'$  - 71 meters, Long.  $64^{\circ} 53'$  - 1250 meters.

A depth of 44 feet was found 0.7 miles  $305^{\circ}$  true from Williams Mill in Lat.  $17^{\circ} 44'$  - 892 meters, Long.  $64^{\circ} 53'$  - 1658 meters.

A depth of 20.5 feet was found 0.4 miles  $218^{\circ}$  true from Williams Mill in Lat.  $17^{\circ} 43'$  - 1425 meters, Long.  $64^{\circ} 53'$  - 1031 meters.

A depth of 30.5 feet was found 1.1 miles  $306^{\circ}$  true from Lutheran Church Steeple in Lat.  $17^{\circ} 43'$  - 890 meters, Long.  $64^{\circ} 53'$  - 1164 meters.

A depth of 33.5 feet was found 0.9 miles  $302^{\circ}$  true from Lutheran Church Steeple in Lat.  $17^{\circ} 43'$  - 625 meters, Long.  $64^{\circ} 53'$  - 990 meters.

A depth of 30.5 feet was found 0.8 miles  $302^{\circ}$  true from Lutheran Church Steeple in Lat.  $17^{\circ} 43'$  - 575 meters, Long.  $64^{\circ} 53'$  - 910 meters.

A depth of 24.5 feet was found 0.6 miles  $303^{\circ}$  true from Lutheran Church Steeple in Lat.  $17^{\circ} 43'$  - 445 meters, Long.  $64^{\circ} 53'$  - 664 meters.

A depth of  $21\frac{3}{4}$  feet was found 1 mile  $223^{\circ}$  true from Lutheran Church Steeple in Lat.  $17^{\circ} 42'$  - 385 meters, Long.  $64^{\circ} 53'$  - 830 meters.

A depth of 23.5 feet was found 1 mile  $220^{\circ}$  true from Lutheran Church Steeple in Lat.  $17^{\circ} 42'$  - 272 meters, Long.  $64^{\circ} 53'$  - 825 meters.

A depth of 22.5 feet was found 1.1 miles  $220^{\circ}$  true from Lutheran Church Steeple in Lat.  $17^{\circ} 42'$  - 175 meters, Long.  $64^{\circ} 53'$  - 922 meters.

A depth of 29.5 feet was found 1.2 miles  $223^{\circ}$  true from Lutheran Church Steeple in Lat.  $17^{\circ} 42'$  - 162 meters, Long.  $64^{\circ} 53'$  - 1045 meters.

A depth of 76 feet was found 4.5 miles  $211^{\circ}$  true from Wym Chimney in Lat.  $17^{\circ} 38'$  - 673 meters, Long.  $64^{\circ} 54'$  & 95 meters.

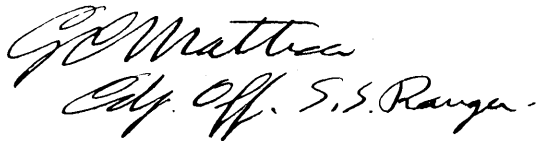
A depth of 35 feet was found 3.1 miles  $166^{\circ}$  true from Wym Chimney in Lat.  $17^{\circ} 39'$  - 222 meters, Long.  $64^{\circ} 51'$  - 845 meters.

Respectfully submitted.



Wilbur R. Porter,  
Aid.

*Forwarded*



*G. J. Mattice  
Edy. Off. S. S. Ranger*

STATISTICS WIRE DRAG

SHEET # 66

1925	Letter	Vol.	Drag Length	Positions.	Miles Stat.	Soundings
June 15	A	1	3600	23	4.0	1
" 16	B	1	3600	31	6.6	1
" 18	C	1	3600	28		
" 18	C	1	4500	25	9.8	
" 19	D	1	4800	25		
" 19	D	1	3000	9	7.2	
" 23	E	1	3000	31		
" 23	E	1	2800	18	7.2	2
" 24	F	1	3600	27	2.0	4
" 25	G	1	2700	33	2.0	7
" 26	I	1	2400	15		9
" 26	H	1	1800	14	3.5	
Total				279	42.3	15

Total area dragged.....18.0 sq. miles statute

Soundings in feet.

Plane of reference = M.T.L. - 0.5 ft.

Tide Staff at Fredricksted, St.Croix Island---Staff #2.

Plane of reference = M.T.L. - 0.5 ft. = 2.70 on staff.

Lowest tide observed = 2.85 on staff.

Highest tide observed = 3.45 on staff.

LIST OF SIGNALS  
WIRE DRAG SHEET #6

Name	Lat.	D.M.	Long.	D.P.	Remarks
Hams Bluff	:	:	:	:	
L.H.	:	:	:	:	Triangulation signal.
Ham	17 46	140	64 52	1497	Topographic signal (Mill)
Al	17 45	1285	64 53	622	Chimney. Scaled from Topo. Sheet
Side	17 45	1186	64 53	585	Topographic signal
Cap	17 45	677	64 53	850	Hydrographic ", located by cuts. WW
Ded	17 46	283	64 45	844	" " " " " "
Butlers	:	:	:	:	
Bay Mill;	<del>17 46</del>	:	:	:	Triangulation signal.
Sprat	:	:	:	:	
Hall-Mill;	:	:	:	:	" "
Williams	:	:	:	:	
Mill	:	:	:	:	" "
Prosperity	:	:	:	:	
Chimney:	:	:	:	:	" "
Lag	:	:	:	:	
Chimney:	:	:	:	:	" "
Lutheran Church	:	:	:	:	
Steeple :	:	:	:	:	" "
Smith-	:	:	:	:	
field :	17 42	291	64 52	1610	Topographic signal (Mill)
Low	17 41	1485	64 53	865	" "
Dog <sub>2</sub>	17 41	612	64 53	1548	Hydrographic-Banner on beach Located by cuts
Kate	17 41	302	64 54	32	" " " " " "
Sand <sub>1</sub>	17 40	395	64 54	1747	Topographic signal---Recovered
outh <sub>2</sub>	17 40	1017	64 54	182	Hydrographic "-Located by cuts
Wym	:	:	:	:	
Chimney:	:	:	:	:	Triangulation signal
Hope	:	:	:	:	" "
Big Diamond	"	"	"	"	
Chimney:	:	:	:	:	" "

LIST OF SIGNALS  
WIRE DRAG SHEET # 6

(Con't)

Name	Lat.	D.M.	Long.	D.P.	Remarks.
Betty Hope	:	:	:	:	
Chimney :	:	:	:	:	Triangulation signal
Adventure	:	:	:	:	
Mill :	:	:	:	:	" "