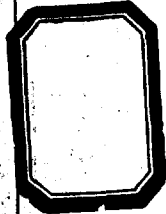


3011

C. & G. SURVEY,
LIBRARY AND ARCHIVES
APR 1910
ACC. No.



Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: _____

DESCRIPTIVE REPORT.

Sheet No.

LOCALITY:

190

CHIEF OF PARTY:

M. H. Hyde
3011

3011

COAST AND
GEODETTIC SURVEY

OCT 29 1909

3011

DEPARTMENT OF COMMERCE AND LABOR.

COAST AND GEODETTIC SURVEY.

O. H. TITTMANN, Superintendent.

Resurvey of the Chesapeake Bay, Virginia.

Revision of the Rappahannock River.

TITLE SHEET.

Descriptive Report of ~~Topographic~~ & Hydrographic

Sheet 517 Register No. 3011

Western Shore Chesapeake Bay, between

Latitude 37 56' to 38 02.5'N.

Longitude 76 50' to 76 55.5'W.

SCALE 1:10000.

From September 23, 1909 to October 6th., 1909.

SCHOONER "MATCHLESS".

O. W. Ferguson, Assistant, C.&.G.S. In Command.

OBSERVERS.

O.W.Ferguson, Assistant; James E. Marsh, Mate;

E.E. Smith, Aif; C. P. Holland, C. B. M.

RECORDERS.

H. W. Godsey, Writer 2cl.

LEADSMEN.

A.C. Pinder, Seaman.

TIDE OBSERVERS.

C. P. Holland, C.B.M.; W.W.Holland, Q.M3cl.

C. & G. SURVEY,
LIBRARY AND ARCHIVES

OCT 21 1909

Acc No.

17
3011

U. S. Geol. Surv. Water Div.

3011

$\phi = 37^{\circ} 57' 08''$
 $\lambda = 76 32 51$

Examination of Creeks, Rappahannock River, Va.
March, 1910.

Descriptive Report of Mount Landing Creek.

This creek enters the river two miles above Tuffahan-
nock. It was followed by the topography and hydrog-
raphy for a distance along channel of over four miles.
It meanders from side to side through a swamp
land from 600 to 800 meters wide all of which was
and open water in the former ages.

This creek enters the river with a very wide
mouth, about 500 meters, but in 1/4 mile narrows to
100 meters the width then generally narrowing to
about 20 meters. It skirts ground rising to
20 and 40 feet on its south side and to about 10
feet on the north side. A wide fringe of timber
covers both banks but farther back the land
is generally cultivated.

The bar at the mouth furnishes 1 1/2 feet depth
at low water and from 2 to 18 feet on up to the
head of examination. In this creek or in others there is
a good deal of trapping for fur carried on. Some fishing
is done in this creek, and a good deal of lumber and
timber is taken out and scow during high tides.

O. W. Ferguson.

3011^a $\phi = 37^{\circ} 58' 17''$ $\lambda = 76^{\circ} 30' 57''$ Examination of Creeks, Rappahannock River, Va.January February and March,1910
Descriptive Report of Cat Point Creek.

This Creek enters the river with a wide mouth or in a bight of the eastern shore, a half mile below Naylor's, Va.

This is a very tortuous creek, winding from side to side through a marsh band 800 meters wide at its mouth to 400 meters wide at a distance of 8.9 miles up the channel, the limit of the examination.

It touches ground on either side frequently rising from a few feet to 10 and 20.

There are several places of open shores on the lower half of this creek but generally there is a good fringe of woods with cultivated ground farther back.

Its general width is from 200 meters to 600 meters with some much wider places.

The depth over the bar at the mouth is five feet; and inside, to within a half mile of the limit we find from 12 to 41 feet and where dropped at the upper end of the examination from 3 to 6 feet. There are, grain, lumber and wood landing named Side, Hogpoint-Faylor, Chestnut Hill and Manoken, with small wharves, ^{commodities are} shipped out on vessels at times of high water.

O. W. Ferguson

3011

3011

J. D. Bohr, Malahoe

$\phi = 37^{\circ} 58' 51''$
 $\lambda = 76^{\circ} 35' 17''$

Examination of Creeks, Rappahannock River, Va.
March, 1910

Descriptive Report of Lewis Creek.

This creek enters the river $1\frac{1}{2}$ miles southwest of Blankfield Wharf. It has a wide and irregular mouth formed partly by low swampy islets. It merely pierces and drains a marsh of nearly a square mile in extent and also is fed from a creek extending up into the country.

It varies in width from 250 to 70 meters. Some fish are taken from its waters and during this past winter several hundred Dollars worth of Skink mostly Muskrats, "300" were trapped.

Lewis Landing, which is at the mouth of this creek was the shipping place of much valuable grain and lumber in the earlier history of the country and then afforded ten feet at low water. At present the depth at this landing is only $2\frac{1}{4}$ feet but a large quantity of lumber and ties are still shipped from here in small vessels. The depth of this creek farther up increases to six feet and then shoals to one foot.

O. W. Ferguson.

2011 3011 3010
20, 22 & 23

20 { $\phi = 38\ 00\ 06$
 $\lambda = 76\ 34\ 36$
22 { $\phi = 37\ 59\ 04$
 $\lambda = 76\ 31\ 58$
23 { $\phi = 37\ 55\ 54$
 $\lambda = 76\ 49\ 05$

3010 & 3011

Examination of Creeks, Rappahannock River, Va.
March, 1910.

²⁰Sluic²²creek, ²²Docton²³ Creek and ²³Slash²³ Creek

These are small creeks; the latter drain a large swamp

The Post-Office map shows Docton Creek as being large but shows no creek where East Point Creek joins the river. Probably the error was in locating East Point Creek above instead of below Naylor's.

O. W. F.

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

3011

C. & G. SURVEY,
LIBRARY AND ARCHIVES
CCT 21 1909
Acc No.

Department of Commerce and Labor

COAST AND GEODETIC SURVEY

SCHOONER "MATCHLESS",

LEEDSTOWN, VA., 10/14/1909.

DESCRIPTIVE REPORT OF THE ~~TOPOGRAPHIC~~ AND HYDROGRAPHIC

SHEET ~~615~~ REGISTER NUMBER. 2011

CONTROL.

No old stations were actually recovered but the approximate location ^{of} Δ Ferry Marsh, Fauntleroy, Mulberry, Bernard and Cliff on the East side were found, also the positions of old house back of signal Ware and the one 120 ms. E X S. from signal Nay; and, on the West side Δ Brock-enbrough and Robinson, the foundations of the old house at \odot Lisp and \odot Ben.

With the aid of these approximate positions and the topography, all stations were located by Plane Table as far as stations Short and Redy, above this a Sextant triangulation was run.

All wharves and the houses have been located and the objects shown on the old sheets not found on the ground have been left off the tracing.

A list of all stations used in the hydrography, most of which were located by the Plane Table is given with this report, also a Title Sheet and a Statistical Sheet.

The topography of the shore and the contours are found quite correct.

The hydrographic revision has been quite thoroughly done, by cross lines about 500ms. apart, and a channel line.

TOWNS.

Tappahannock comes just below this sheet. Naylor's Landing 3 1/4 miles above Tappahannock and on the East side of the river is a very small town having ~~post~~ office, telephone, store and a Canning establishment.

Blanfields Landing 3 1/2 miles farther up on the west side where there is nothing but a wharf is the only ^{other} landing on the sheet.

OCCUPATION.

Farming is the principal occupation, while a few are engaged in fishing.

SURFACE.

The surface is rolling interspersed with creeks and swamps, and where not cultivated ^{is} ~~are~~ covered with a growth of trees or brush.

SOIL.

The soil is free from stone favorable for cultivation and is productive. The winters are mild and cattle can live through the winters with little expense.

So far, up the Rappahannock, no "Saloons" have been found to contend with.

3.

3011
Desc.rept. ~~T. H.~~ H. Sheet 517, O.W.F. 10/14/1909.

PRODUCTS.

Corn, Oats and Sweet potatoes are raised quite extensively. A considerable poultry and some sheep and cattle are shipped. Some lumber, ties and piling is gleaned from various points.

The width of the river over this sheet varies from 2 1/4 miles to 1/2 mile wide at its upper end, where it runs against high bluffs on the east side.

SAILING DIRECTIONS.

After black spar buoy # 13 is reached, steer for a point 200 feet from Naylor's wharf, Course N. 3/8 W., Change course to NW. 3/4 W. Distance 3/8 mile, then change course for Red Nun buoy # 18, WNW. 7/8 W. 1 3/4 miles. Then steer N. 3/4 W., 2 3/4 miles. Then steer North 1 mile to a point abreast of old broken down pier.

N O T E.

A remarkable case of emergence is seen at and below Ⓞ Brock, about 1 1/2 miles above Tappahannock. Here, at the water level are seen huge cypress stumps worn & broken off to about mean tide level. About a foot above the high tide level is the top surface of a very rich black soil into which these cypress grew-very, full of roots and branches, some of them extending back under the 30 feet of silt and sand deposit resting directly over the gumbo.

It seems that in the long ago a cypress swamp flourished here, then the area settled probably 50 feet, covering the

4. Desc. Rpet. ~~517~~ ³⁰¹¹ H. Sheet ~~517~~, O.W.F. 10/14/1909.

whole with water and the old trees died and were broken down and washed away. Then began the washing in of this silt and sand depositing the 30 feet of earth over the stumps and roots of the cypress trees. Then an emergence began lifting the cypress stumps and all back to about the elevation it had when the cypress trees were flourishing.

Respectfully yours,

O. W. Ferguson.

Assistant, C. & G. Survey,
Commanding.

M.D.H.
Jan. 18, 1912.

HYDROGRAPHIC SHEET 3011.

See Dir
as
1/18/12

Rappahannock River, Va.,

Lat. 37° 56' to Lat. 38° 2'
Long. 76° 50' to Long. 76° 57'

by Asst. O. W. Ferguson in 1910.

TIDES.	Tappahannock ft.	Cat Pt. Creek. ft.	Occupacia Creek. ft.
Mean low water or plane of reference on staff	3.1	4.3	1.8
Lowest tide observed	-0.1	1.1	-1.4
Highest " "	6.3	7.5	5.0
Mean range of tide	1.6	1.6	1.5

3011-a.

Cat Point Creek, Rappahannock River, Va.,

by Asst. Ferguson in 1910.

	Cat Point Creek. ft.
Mean low water or plane of reference on staff	4.3
Lowest tide observed	1.1
Highest " "	7.5
Mean range of tide	1.6

Coast and Geodetic Survey
JAN 18 1912
TIDAL DIVISION

3011

C. & G. SURVEY,
LIBRARY AND ARCHIVES

OCT 21 1909

Acc No.

LIST OF NAMES OF SIGNALS USED ON HYDROGRAPHIC

~~SHEET~~

~~517~~ REGISTER NUMBER. 3011

SOUTH BANK

MON

BROCK

HOOK

MALL

CORN

ROB

LAV

CHY

BLAN

OLD

EVE

LISP

LONE

SWEET

BEN

NORTH BANK

FER

DRAW

WAR

END

NAY

POINT

BERRY

BULT

BERN

REDY

LUM

GAB

CLIFF

Hyd. Sheet 3011 + 3011^a

The work on this sheet is much better than some of the others of this series. and the crossings are mostly all good. This is probably due to better control, positions having been determined at frequent intervals by sextant angles.

All the positions were reprotracted and nearly all of them found correct, allowing for shrinkage in the vellum.

Comparison with the old survey of 1855, shows no decided changes.

The supplemental work, done in Cat Pt. Creek (3011^a), Mount Landing Creek and Lewis Creek is not so reliable.

Wherever any discrepancies occur in shoreline or the position of drawbridge in Cat Pt. Creek, Hyd 3011^a should be accepted.

R. L. Johnston

Draftsman

7/29/10.

Department of Commerce and Labor

Statistics for Hyd. Sheet 3011

Date	Letter	Volume	Positions	Soundings	Miles	Vessel
Sept. 23, 1909.	a	1	54	360	10.5	Steam Launch
Oct. 6, "	b	1	47	378	10.0	Steam Launch & Whaleboat.
" 5, "	a	2	48	473	10.1	Whaleboat
" 6, "	b	2	22	174	3.8	"
March 17, 1910.	e	Supplemental Vol. 1	67	380	6.2	"
" 19, "	g	Supplemental Vol. 2	30	188	3.8	"
Totals		4	268	1943	44.4	Totals

Statistics for Hyd. Sheet 3011^a

Date	Letter	Supplemental Volume	Positions	Soundings	Miles	Vessel
Feb. 3, 1910.	a	1	67	370	5.9	Whaleboat
March 7, "	b	1	59	362	9.9	"
March 19, "	g	2	28	196	4.0	"
Totals		2	154	928	19.8	Totals

Soundings plotted in feet.

Protracted by Field Party.

Plotted and inked by R. L. Johnston.