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1911  
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# 3288

C. & G. SURVEY.  
LIBRARY AND ARCHIVES  
JUN 27 1911  
Acc. No.

Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

\_\_\_\_\_  
*Superintendent.*

State: *Va*

## DESCRIPTIVE REPORT.

*Hyd.* Sheet No. *3288*

LOCALITY:

*Subjects Bay, and  
Tributaries*

\_\_\_\_\_  
1901  
\_\_\_\_\_

CHIEF OF PARTY:

*J. B. Boutelle*

# 3288

# 3288

## Descriptive Report

~~To accompany Hydrographic Sheet, Field No. 2670.~~

Re-survey of MOBJACK BAY and tributaries  
Virginia.

G. & G. SURVEY,  
LIBRARY AND ARCHIVES  
JUN 27 1911  
Acc. No. \_\_\_\_\_

December 15th., 1910 to March 17th., 1911.

### Method of Survey :

A number of old stations having been recovered signals were established around the bay and up the rivers. Projections on a scale of 1 - 10,000 were made of the areas covered by the rivers and a plane table triangulation made to determine the positions of signals which were then transferred to the fair sheet and the plane table sheets were used as boat sheets.

Soundings were made of the bay and rivers, running in parallel lines about 100 meters apart, not crossed.

Considerable change was found, especially in the position of the 18 ft. curve amounting in some places to about 600 meters. A 12 ft. shoal was found off the mouth of Ware River where the present chart shows 22 feet.

Tidal Observations were made at Philpott's Wharf at the villiage of Mobjack mouth of East River (an old station) and at Auburn Wharf on the North River. A few observations on the Severn and Ware Rivers showed no difference in time from the Philpott's Wharf gauge and that gauge was used for both these rivers.

Mobjack Bay is inhabited by a farming and fishing population. There is a small villiage at "Mobjack" at the mouth of East River. The Old Dominion Steamship Co. run a daily steamboat from Norfolk to the bay and rivers carrying mail, passengers, freight and express.

A tabular statement of the hydrographic records and statistics and lists of geographic positions of all signals accompany this report.

Respectfully submitted,

*J. S. Douthett* Not signed

Assistant, C. & G. Survey,

Commanding Str. "Endeavor".

*Attached to map sheet. (from sheet)*

# 3288

## GEOGRAPHICAL

C. & G. SURVEY  
LIBRARY AND ARCHIVES  
JUN 27 1911  
Acc. No.

Locality *Mobjack Bay, Va.*

11-876

STATIONS.	LATITUDE. ° ' "	Seconds in Meters.	LONGITUDE. ° ' "	Seconds in Meters.
<i>Point 2</i> <i>1910</i>	<i>37 22 05.974</i>	<i>184.2</i>	<i>76 24 20.744</i>	<i>510.4</i>
<i>Guin</i> <i>1910</i>	<i>37 16 45.498</i>	<i>1402.6</i>	<i>76 21 08.194</i>	<i>201.9</i>
<i>Bush</i> <i>1910</i>	<i>37 18 29.530</i>	<i>910.4</i>	<i>76 23 12.288</i>	<i>302.6</i>

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# POSITIONS.

*State*

AZIMUTH.

BACK AZIMUTH.

TO STATIONS.

DISTANCE.

LOGARITHMS.

Meters.

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GEOGRAPHICAL SURVEY,  
 LIBRARY AND ARCHIVES

JUN 27 1911  
 Acc. No.

Locality Severn River, Mobjack Bay, Va. 1911.

11-678

Positions of hyd signals determined by plane table triangulation.

STATIONS.	LATITUDE.		Seconds in Meters.	LONGITUDE.		Seconds in Meters.
	°	' "		°	' "	
CUS	37	19	1492	76	24	442
TURTLE		19	443		25	35
KING		18	1020		24	974
CEDAR		18	1263		25	1276
WHIT (s. gable of shed)		19	673		25	1425
NECK		19	572		26	488
HAT		19	447		26	1388
STUMP		18	1670		26	487
ROW		18	653		26	606
BAR		18	1007		26	982
DOM (n.e. gable of whf.house)		18	153		26	1143
DOT		18	487		26	1247
FOX		17	1800		27	20
COW		18	396		27	663
LOG		18	72		27	905
HAM		19	142		27	702
PAD		19	71		28	282
DUN		19	471		27	842
COD (s.e. cor. pile of whf.)		19	684		27	290
CAB (s.e.center gable of lg.house)		19	1355		27	630
ARK (s.e.center gable of lg.house)		19	1356		27	176

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# POSITIONS.

*State*

AZIMUTH.

BACK AZIMUTH.

TO STATIONS.

DISTANCE.

Meters.

LOGARITHMS.

Do not write in this margin.

GEOGRAPHICAL

U.S. NAVY  
 LIBRARY AND ARCHIVES  
 JUN 27 1911  
 Acc. No.

Locality East River, Mobjack Bay, Va. 1911.

11-676

Positions of signals determined by plane table triangulation.

STATIONS.	LATITUDE.		Seconds in Meters.	LONGITUDE.		Seconds in Meters.
	°	' "		°	' "	
MUD	37	21	1653	76	20	409
MOB		22	483		20	1364
SMITH		21	1078		20	163
DIG (n.chy.of large house)		22	407		20	259
DIP		22	814		20	262
CHY. (n.chy.of small house)		22	1085		20	89
SPIRE		22	1088		20	1257
CAN (e.gable of cannery)		22	1572		20	933
DIM		22	1535		20	136
RED		23	192		20	95
BOX		23	600		20	792
AFT		23	1212		20	130
YEL		23	1035		20	916
DOK		23	1561		20	1230
BOW		23	1840		20	713
WILL		24	390		20	1198
NUT		24	579		20	1120
NEW		24	575		21	59
HIK (s.gable of wharf house)		24	1027		20	1367
BAS		24	1058		20	893
DOG		24	1430		20	1248
AD		24	1684		20	942
FENCE		25	78		20	1192
FLAG		24	1800		21	213
ROSE		25	428		21	249
BAR		25	496		21	710
GIG		25	167		21	563
GUM		25	481		21	997
AJD		25	806		21	887
BUD		25	968		21	1008
DON		25	1109		21	1091
OLD	37	25	930	76	21	1375

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# POSITIONS.

*State*

AZIMUTH.

BACK AZIMUTH.

TO STATIONS.

DISTANCE.

Meters.

LOGARITHMS.

Do not write in this margin.

GEOGRAPHICAL

C. & G. SURVEY,  
 LIBRARY AND ARCHIVES  
 JUN 24 1911  
 Acc. No.

Locality **Ware River, Mobjaok Bay, Va. 1911.**

11-676

Positions of hydro signals determined by plane table triangulation.

STATIONS.	LATITUDE.		Seconds in Meters.	LONGITUDE.		Seconds in Meters.
	°	' "		°	' "	
			+			+
HAY	37	22	715	76	25	390
PIG (over an old sta.mark)		21	57		25	716
FAN (s.gable of barn)		22	1696		25	1285
N.E.CHY.		22	1605		26	184
S.W.CHY.		22	1600		26	205
JAR		22	1527		27	119
BAT		22	1658		27	1353
FID (e.cen.gable of large ho.)		22	1553		28	35
LUG (s.e.gable of yellow barn)		22	895		28	267
ELK (windmill)		22	120		28	416
FISH (e.gable of fishhouse on small island)		22	528		27	580
PINE (trunk of large pine tree)		21	1686		27	1272
PINK (n.w.gable of shed)		21	1416		26	1217
WIND		21	1825		26	1083
FIRE		23	675		27	561
BAILEY		23	406		27	1020
EBB		23	963		27	1448
HOCK (round cen.chy.on whf.ho.)		23	1100		27	960
GEM (windmill)		23	1339		27	874
DOR (s.center gable,white ho.)		23	1528		27	1243
COAL		23	1447		28	387
AX		23	1254		28	838
CAR		23	1750		28	1121
FOG	37	23	1539	76	29	77

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# POSITIONS.

*State*

AZIMUTH.

BACK AZIMUTH.

TO STATIONS.

DISTANCE.

Meters.

LOGARITHMS.

Do not write in this margin.

C. & G. SURVEY  
 LIBRARY AND ARCHIVES  
 Acc. No.

Locality North River, Mobjaok Bay, Va. 1911.

11-876

Positions of hydro signals & other objects, determined by plane table triangulation.

STATIONS.	LATITUDE.		Seconds in Meters.	LONGITUDE.		Seconds in Meters.
	°	' "		°	' "	
HORSE	37	23	1022	76	24	1352
RAY		23	1635		23	1064
TANK (windmill)		24	430		23	1106
BOB (wharf house, n. gable)		24	192		23	1457
BLACK		24	1600		23	1405
WAT (barn, center cupola)		24	1489		23	1225
LONE		24	1029		24	1432
KEY		25	97		24	1195
NET (whf. house, chy.)		24	1294		25	795
MAT (whf. ho., red roof, cen. flagstf.)		24	1386		25	1148
FIN (whf. ho., n. w. flagstaff)		24	1574		26	216
FIG		25	406		25	995
SHED (s. w. gable)		25	427		26	20
HAVEN (windmill)		24	1435		26	570
HOPE (red cupola)		24	1510		26	805
BACK		25	75		26	1460
* LOT		25	622		26	872
FAR (house, east chy.)		25	676		26	863
HUT (fish house, west gable)		25	1049		26	1210
HOP (lg. white ho., center gable)		25	766		27	276
† DIX (flag outer gable, whf. ho., (Dixondale)		25	980		27	107
MILL (windmill)		25	1191		27	290
* DAB		25	1394		26	1191
* CAP		26	312		26	1045
* FEN		26	132		26	1442
* BET	37	26	607	76	26	1189
Top (windmill)	37	24	1273	76	23	831

Do not write in this margin.

\* These stations are on the outer end of points about 2 or 3 meters of high water mark.

† Outer end of wharf is about 5 meters outside of station DIX.

# POSITIONS.

*State*

AZIMUTH.

BACK AZIMUTH.

TO STATIONS.

DISTANCE.

LOGARITHMS.

Meters.

Do not write in this margin.

# 3288

( 1 )

Hyd = 3288

STATISTICS HYDROGRAPHIC SHEET, FIELD NO. ~~2570~~

MOBJACK BAY, VA.

1910-1911

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C. & G. SURVEY, LIBRARY AND ARCHIVES JUN 27 1911 Acc. No.
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Date 1910	Letter	Vol.	Sub-locality	Positions	Soundings	Statute miles	Vessel
Dec. 15	A	1	Mobjack Bay,	129	1261	19.5	ENDEAVOR
" 17	B		" "	101	945	14.2	"
" 17	B	2	" "	20	203	3.5	"
" 21	C		" "	139	1092	22.2	"
" 22	D		" "	103	922	18.5	"
" 22	D	3	" "	51	515	10.5	"
" 23	E		" "	130	1143	22.0	"
" 27	F		" "	54	486	9.5	"
" 27	F	4	" "	83	710	15.5	"
" 29	G		" "	139	1064	23.3	"
1911							
Feb. 23	H		" "	41	254	4.2	"
Jan. 10	a	5	" "	167	1133	23.0	Launch No. 44.
" 11	b		" "	67	448	6.5	"
" 12	c		" "	29	224	3.2	"
" 12	c	6	" "	94	646	10.5	"
" 16	e		" "	90	692	9.0	"
" 17	f		" "	13	111	1.2	Whaleboat.
Carried forward.....				1450	11,849	216.3	

Date. 1911	Letter	Vol.	Sub-locality	Positions	Soundings	Statute miles	Vessel
			Brought forward	1450	11,849	216.3	
Jan. 19	g	6	Mobjack Bay	48	494	6.0	Whaleboat.
" 13	d	7	East River	92	597	7.8	Launch No. 44
" 21	i		" "	57	364	5.0	"
" 23	j		" "	72	567	7.0	"
" 28	n		" "	12	76	0.9	Whaleboat.
Feb. 18	y		" "	26	161	1.9	Launch No. 44
Jan. 19	g	8	Mobjack Bay	85	705	9.5	"
" 20	h		" "	70	723	10.5	"
" 24	k		" "	59	633	5.5	Whaleboat.
" 24	k	9	" "	28	317	3.5	"
" 25	l		" "	144	1327	18.3	Launch No. 44
" 27	m		" "	32	229	4.0	"
Mar. 18	p'		" "	17	145	1.6	Whaleboat.
Jan. 30	o	10	Severn River	59	590	5.2	"
Feb. 1	p		" "	66	592	6.6	"
" 2	q		" "	93	635	8.5	"
" 3	r	11	" "	114	998	9.8	"
" 6	s		" "	94	746	8.4	"
" 13	t	12	" "	76	616	6.3	"
" 14	u		" "	94	621	5.0	"
" 17	x		" "	77	517	6.1	Launch No. 44
Carried forward.....				2865	23,502	353.7	

Date 1911	Letter	Vol.	Sub-locality	Positions	Soundings	Statute miles	Vessel.
			Brought forward	2865	23,502	353.7	
Feb. 15	v	13	Ware River	154	1191	20.9	Launch No. 44.
" 16	w		" "	117	871	17.0	"
" 16	w	14	" "	24	234	4.3	"
" 17	x		" "	51	434	7.3	"
" 20	z		" "	94	662	11.9	"
" 21	a'		" "	80	576	8.2	"
" 18	y	15	East River.	31	195	2.6	"
" 28	c'		" "	112	902	10.5	Whaleboat.
Mar. 9	i'		" "	24	212	1.2	"
Feb. 21	a'	16	Ware River.	4	37	0.4	Launch No. 44.
" 25	b'		" "	96	661	11.4	"
Mar. 4	g'		" "	93	857	11.0	"
" 7	h'		" "	63	492	7.1	"
" 1	d'	17	North River.	110	971	10.5	Whaleboat.
" 2	e'		" "	39	512	5.7	"
" 2	e'		" "	60	407	6.7	Launch No. 44
" 7	h'	18	Ware River,	29	273	3.0	"
" 9	i'		" "	70	559	7.0	"
" 10	j'		" "	122	1109	11.5	"
" 11	k'	19	" "	71	595	5.7	Whaleboat.
Carried forward.....				4309	35,252	517.6	



# 3288

( 4 )

Date 1911.	Letter	Vol.	Sub-locality	Positions	Spundings	Statute miles	Vessel
			Brought forward,	4309	35,252	517.6	
Mar. 3	f'	20	North River	41	431	2.5	Whaleboat.
" 3	f'		" "	76	490	7.7	Launch No.44
" 13	l'		" "	100	794	10.5	"
" 13	l'	20	" "	17	184	1.5	Whaleboat.
" 13	l'	21	" "	29	256	2.4	"
" 15	n'		" "	195	1325	20.9	Launch No.44
" 16	n'	21	" "	74	452	9.3	"
" 16	n'	22	" "	70	491	8.0	"
" 17	o'		" "	118	771	12.0	"
Total : -				5029	40,446	592.4	

*accompanying above records there are:*

*1 fair sheet, field number 2870  
5 boat-sheets.*

VEC  
July 7, 1911.

HYDROGRAPHIC SHEET 3288.

Mobjack Bay, Virginia, by Assistant J. B.  
Boutelle in 1911.

TIDES.

	Philpotts Wharf ft.	Auburn Wharf ft.
Mean low water, or plane of reference on staff	2.6	2.1
Lowest tide observed " "	1.2	1.2
Highest " " " "	6.6	4.7
Mean range of tide	2.2	2.4

Coast and Geodetic Survey  
JUL 7 1911  
TIDAL DIVISION

November 8. 1911

Hyd. Sheet # 3288

Positions plotted by Field Party.

Area surveyed well covered.

Records excellent.

No cross lines but this does not seem necessary

~~owing~~ <sup>owing</sup> to closeness of survey.

Reductions of soundings at beginning and ending at  
shore lines not in accordance with general practice.

John D. Torrey

Verified by A. L. Simons