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C. & G. SURVEY,
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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

J. N. Littmann
Superintendent.

State: *Val*

DESCRIPTIVE REPORT.

Haye Sheet No. *3045 A* *3045a*

LOCALITY:

James River etc

1910

CHIEF OF PARTY:

J. B. Boutelle

DEPARTMENT OF COMMERCE AND LABOR.

COAST AND GEODETIC SURVEY.

O. H. TITTMANN, Superintendent.

Resurvey of the Chesapeake Bay, Virginia.

Revision of the James River.

TITLE SHEET.

Descriptive Report of Hydrographic Sheet 3045,

Register Number.

Between,

Latitude 36 54' to 37 07' N.

Longitude 76 24' to 76 40' W.

SCALE 1:20000.

From July 16, 1910 to July 23, 1910.

SCHOONER "MATCHLESS".

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

OBSERVERS.

James E. Marsh, Mate; J. George Dobie, Aid;

John W. Clift, C.W.; C.P. Holland, C.B.M.

RECORDER.

H. W. Gedney, W. 2cl.

LEADSMEN.

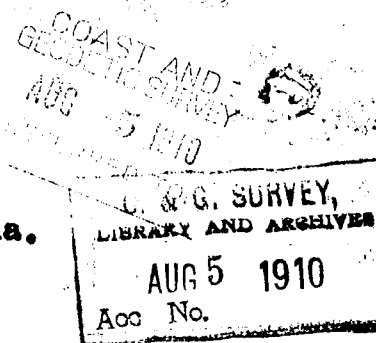
M. L. Tabor, S.M.M.

J. B. Ireland, Q.M. 3C.

TIDE OBSERVERS.

C. P. Holland, C.B.M.

N. E. Lusby, Sea.



3045a

C. & G. SURVEY,
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DESCRIPTIVE REPORT.

3045a

To accompany U. S. S. ENDEAVOR Boat sheet, JAMES RIVER, VA., NEWPORT NEWS to MULBERRY POINT and tracings accompanying topographic sheets Nos. 1265 and 1266, showing re-survey of topography of shore line and supplementary hydrography.

JANUARY AND FEBRUARY 1910.

This survey was for the purpose of the revision of the charts of the James River.

A tertiary triangulation was carried up the river for the purpose of the recovery of the old stations where possible and for the determination of new points where needed for the topographic and hydrographic points. A number of stations established by the U. S. E. D. and by the Bureau of Fisheries were included in the triangulation. *See pp. 123-20*

The topography consisted of re-running the shore line indicating changes where found and inserting new objects such as wharves, houses etc.

The hydrography consisted of a system of lines across the river about one mile apart and also the examination of a number of places indicated on charts sent from the office.

Three small shoals are shown which are dry at low water.

Two at the east and west ends of Naseby Shoal near Newport News and one about 1/2 mile N.W. of White Shoal Light House.

A search was made for a ten foot spot shown on chart 401-a about 1-1/2 mile N.W. of White Shoal Lt.Ho., but no indications of it could be found. In addition to the soundings shown, many others were taken with the boat drifting slowly over and around the locality searching for the spot. A search was also made for the 150 foot spot shown 1-1/2 mile S X W of Jail Island, but 97 feet was the deepest water found.

In this case also many unrecorded soundings were taken over the locality while searching for the spot.

Tidal observations were made at Newport News and at Fergusons Wharf opposite Point of Shoals Lt. Ho.

The tidal observations and soundings were reduced and plotted in the field on the boat sheet and on the tracing accompanying the topographic sheet.

Respectfully submitted,



Assistant, Coast and Geodetic Survey,
Commanding U. S. S. Endeavor.

Locality James River, Va.

Newport News to Mulberry Point
Stations determined 1909--1910.

11-876

STATIONS.	LATITUDE.		Seconds in Meters.	LONGITUDE.		Seconds in Meters.
	°	' "		°	' "	
Pig.	36	54 15.552	479.4	76	26 46.138	1142.2
Barrel 2.	36	54 59.190	1824.5	76	28 53.738	1330.1
Cooper 2.	36	57 26.829	827.0	76	29 12.765	315.8
New.	36	57 50.603	1559.8	76	24 55.349	1369.2
Cedar Flag.	36	55 10.575	325.8	76	29 09.110	225.5
Brown.	36	00 46.58	1436.0	76	27 16.73	413.6
Max.	36	59 03.09	95.3	76	31 29.32	725.1
Board.	37	02 34.08	1050.7	76	29 34.32	848.3
Cat.	36	59	1763	76	33	164
Aaron Shoal Lt.Reacon.	37	00 47.91	1477.0	76	33 02.05	50.7
Gap Shoal Lt.Reacon.	37	00 45.53	1403.6	76	33 55.99	1384.2
Plunt.	37	03 23.03	710.0	76	31 13.18	325.6
Green.	37	01 46.74	1441.0	76	35 17.69	437.3
Jail.	37	04 25.79	795.1	76	33 45.67	1128.1
Tree.	37	02	255	76	36	1081
New Lawson.	37	02 07.10	218.9	76	37 25.27	624.5
Turner.	37	02	1249	76	39	1074
Jones (F)	37	03 59.80	1843.6	76	40 11.44	282.5
Snell.	37	06 15.70	484.0	76	35 55.83	1378.5
Clay.	37	05	553	76	39	1037
Oscar.	37	06 37.45	1154.5	76	39 27.75	685.2
Mulberry	37	07 30.76	948.3	76	37 44.24	1092.1

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POSITIONS.

State

AZIMUTH. ° / "	BACK AZIMUTH. ° / "	TO STATIONS.	DISTANCE. Meters.	LOGARITHMS.
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POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

COAST AND
GEODETTIC SURVEY

AUG -5 1910

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Assistant in Charge.

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Department of Commerce and Labor

COAST AND GEODETTIC SURVEY

SCHOONER "MATCHLESS",

CLAREMONT, VA., AUGUST 3, 1910.

DESCRIPTIVE REPORT OF HYDROGRAPHIC SHEET SUPPLEMENTARY TO
3045 AND 3045a. JAMES RIVER, VA.

Supplementary Soundings are shown in Black. The soundings made by Captain J.B. Beutelle are copied on the same tracing and shown in green.

Every rain that falls upon the light loaming clay soil of Virginia, along the James River washes a quantity of material into this river and sometimes it is a large quantity.

There is no jetty principle at work to sweep this material into the Bay and Ocean as in a nontidal River, producing an inevitable filling up of the flats and basins of the river.

There was a heavy rain at its headwaters and about Richmond two weeks ago and the water is still turbid and yellow from the effects of the material and coloring matter then washed into the basin which the James is obliged to take care of and she does this with the least possible injury to navigation. Nevertheless the work of diking and dredging will increase.

O. W. Ferguson.

Assistant, C. & G. Survey,

Commanding.

AUG 5 1910
Acc. No.

STATISTICS Sheet No. 3045 & 3045a

DATE 1910.	Letter	Vols.	Positions	Soundings	Miles Statute	Vessel.
July 16	a	1	32	220	4.2	Launch
20	b	1	104	745	17.1	
21	c	1	75	533	12.8	
23	d	1	67	468	13.0	
	4	1	278	1966	47.1	
19	a	1	58	429	6.2	Whaleboat

RECAPITULATION.						
Steam Launch	4	1	278	1966	47.1	
Whaleboat	1	1	58	429	6.2	
Total	5	2	336	2395	53.3	

13.2 square miles.

STATISTICS

Sheet No. 3045 & 3045a.

Date 1910	Letter	Statute Miles	Soundings	Angles	Vessel
July 25	a	1.5	62	22	Launch
July 27	b	12.2	516	146	Launch
Aug. 1	c	12.3	413	112	Launch
Aug. 2	d	10.0	521	124	Launch
Aug. 5	e	12.2	506	144	Launch
	5	48.2	2018	548	

Area 12 sq miles

VEC
Nov. 17, 1911

Done
as
11/18/11

HYDROGRAPHIC SHEET 3045.

Newport News to Pagan Creek, James River, Virginia,
by Assistants J. B. Boutelle and O. W. Ferguson, in 1910.

TIDES.

	Newport News ft.	Fergussons Wharf ft.
Mean low water, or plane of reference on staff	1.8	2.0
Lowest tide observed " "	0.0	1.6
Highest " " " "	6.6	5.1
Mean range of tide	2.6	2.4

Coast and Geodetic Survey
NOV 17 1911
FIELD DIVISION

VEC
Nov. 17, 1911

HYDROGRAPHIC SHEET 3045a.

Pagan Creek to Point of Shoals Light and ~~Wherry~~
Point, James River, Virginia, by Assistants J. B. Boutelle
and O. W. Ferguson, in 1910.

TIDES.

	Newport News	Fergussons Wharf
	ft.	ft.
Mean low water, or plane of reference on staff	1.8	2.0
Lowest tide observed " "	0.0	1.6
Highest " " " "	6.6	5.1
Mean range of tide	2.6	2.4

Checked and Corrected by
NOV 17 1911
H. H. H. H. H.

Hyd Sheet No 30457 3045^e Sept. 8, 1910.

The channel within the area covered by the two surveys is fairly well developed with the exception of the 17ft spot in the middle of the channel about 1 mile southeast of White Shoal Lt. Ho. and the point where the channel shoals ~~narrows~~ to 19 feet about 1/2 mile above Point of Shoals Lt.

The survey below White Shoal Lt. Ho. is incomplete.

H. L. Simon