

C. & G. SURVEY,
BIBRARY AND ARCHIVES
MAR, 5 1910
Acc. No.

Department of Commerce and Labor COAST AND GEODETIC SURVEY
J. J. Littmann Superintendent.
State: Va
DESCRIPTIVE REPORT.
Sheet No. 3041
LOCALITY:
approaches to Hamp-
ton Roads
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19/0
OHIEF OF PARTY:
It & Hodakins

DESCRIPTIVE REPORT

to accompany Hydrographic Sheet No. 3041.

MAR 12 1910

& G. SURVEY. RESURVEY OF PART OF APPROACHES TO HAMPTON ROADS, VIRGINIA LIBRARY AND ARCHIVES MAR 1 41910

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Scale 1:20000.

Surveyed in December, 1909, January and February, 1910,

by the party on the Steamer "BACHE", commanded by

Assistant W. C. Hodgkins.

This resurvey covers the bar lying to the southwestward of the shoal called the Tail of the Horseshoe and obstructing the principal approach to Hampton Roads for vessels of great draft.

The weather during the time spent on this sheet was very unfavorable for hydrography, being generally either too hazy to permit signals to be seen or too rough and windy for accurate soundings.

In the beginning of the work tides were observed at Thimble Shoal Light-House; but owing to the destruction of that building by collision and fire on the morning of December 27, it became necessary to make the remainder of the tidal observations at a staff established on the Government Wharf at Fort Monroe.

Toward the end of the work a few readings, for comparison, were obtained at a staff fixed to a pile beacon near the eastern end of Willoughby Bank.

It seems unnecessary to give any detailed information in regard to so well known a region, but it may be mentioned that the commerce of Norfolk and Newport News is very extensive and apparently growing.

Respectfully submitted.

116 Nodokow

March 10, 1910

Assistant, Coast & Geodetic Survey, Commanding.

To the Superintendent,

Coast and Geodetic Survey.

Washington, D. C.

3041

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The errors in the determination of depth have map, magnitudes of about # 1ft. There is no widence of systematic errors affecting certain days' work, lines in one direction or particular locality - It is protable, therefore, that They are the resultants of the many small component accidental errors, almost impossible to eliminate from work of this character

@ Variation in length of lead line in course of work-

(6) Error resulting from heading off course made food.

(c) Personal error in reading many med in handling lead -

Dersonal error in allowance for swell & chop-

Co Varying conditions are to change in heading - whether leads man is on windward or Luward Dide

De Currents and wind
The area involved is rather explored and
has map Lidal current of 15 & 2

proto a

The work is food as a whole and the errors noted are probably due in fresh measure to current; but this is much confice him as the Tide and sounding records have not yet bun received -

3-1-70

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17m

17

23

26

TOTAL.

5

6

6

6

6

R

R

S

T

19

15.0

16.5

16.5

13.5

304.3

STATISTICS SHEET No. BOAL H.

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		•					Aco No.		1
Da	te. 09.	Vol.	Letter.	Miles.	Positions.	Angles.	Sound'gs.	Boat.	
Dec.		1	A	6₹5	27	54	159	BACHE.	
•, 11	24	1	В	6.7	31	62	190	77	
•	28	1	C	12.5	58	115	330	**	
11	31	1	D	1.00	4	8	19	11	•
191 Jan		1	E	11.3	63	126	450	n	
**	16	2	F	28.0	123	260	828	11	
**	19	2	G	34.0	138	276	806	11	
**	20	3	Н	5.5	21	42	130	n	
**	22	3	I	22.5	99	198	588	11	
**	24	4	K	30.0	153	306	903	11	
***	26	3	L	6.0	31	62	191	11	
Feb.	2	3	M	10.0	44	88	262	11	
. 11	4	4	N .	27.3	144	288	828	11	
11	5	5	0	27.0	129	258	734	11	
17	10	5	ā	11.0	56	112	307	11	
***	11	5	٤	3.5	22	44	112	**	

73

59

76

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1437

146

114

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132

2843

432

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