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Diag. Cht. No. 1204-2

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

O. H. Tittmann
Superintendent.

State: Me

DESCRIPTIVE REPORT.

Hydrographic *Sheet No.* 3033

LOCALITY:

Casco Bay, East coast of Cushing Id. and the Channel west of Diamond Isls

10,000

1909

CHIEF OF PARTY:

W. C. Hodgkins

3033

H. 3033

DEPARTMENT OF COMMERCE AND LABOR.

COAST AND GEODETIC SURVEY.

O. H. TITTMANN, SUPERINTENDENT.

Vicinity of Portland, Maine.

C. & G. S. Str."BACHE".

W. C. Hodgkins, Chief of Party.

Begun October 8, 1909.

Ended October 9, 1909.

Scale 1:10000

Positions and Soundings plotted by Wm. Sanger.

DESCRIPTIVE REPORT

to accompany Hydrographic Sheet No.

Portions of Approaches

to Portland Harbor, Maine.

Scale 1:10000.

Surveyed in October, 1909,

by the party on the Steamer BACHE commanded by

Assistant W. C. Hodgkins.

COAST AND GEODETIC SURVEY
DEC 16 1909
REFERRED TO
Assistant in Charge.
RECEIVED BY ASSISTANT IN CHARGE AND REFERRED TO
DEC 16 1909
Leonard

The work shown on this sheet covers the channel west of the Diamond Islands and that between Cushing and Ram Islands.

There is nothing in the first named piece of work calling for any special mention and in regard to the work outside of Cushing Island, the most important feature is that no trace was found of the 3½ fathom shoal shown on Chart 325 about five-eighths of a mile east of White Head. If the two soundings of 3½ and 4 fathoms shown at this place on the chart are correct, the obstructions must be of the nature of pinnacle rocks, requiring the use of a drag to locate them with certainty.

During a recent visit to Washington, I mentioned this matter to the Inspector of Hydrography and asked him whether he wished me to make such a search. He said, in reply, that he did not think it necessary.

It does not appear that for this slight piece of work, it is desirable to give any general description of a port already so well known as Portland.

For greater convenience in the field work, a tide gauge was established at the Casino Landing, at the southern point of Little Diamond Island. The plane of reference was derived from that established at Portland Pier, simultaneous readings at both points being made at short intervals for a period of several hours on two successive days.

DESCRIPTIVE REPORT No. 2.

Local Bench Marks were established on Little Diamond Island for future reference.

Respectfully submitted,

W. C. Hodgkins

Assistant, Coast & Geodetic Survey,
Commanding.

To the Superintendent,

Coast and Geodetic Survey,

Washington, D. C.

October 30, 1909.

STATISTICS SHEET "H".

Date 1909	Letter	Vol.	Postns.	Soundgs.	Miles	Boat.
Oct. 8	a	1	53	172	4.1	Launch 31.
Oct. 9	b	1	160	490	13.4	"
TOTAL.	2	1	213	662	17.5	
Oct. 8	a	1	84	496	7.5	Launch 32.
Oct. 9	b	1	164	1089	18.7	"
TOTAL.	2	1	248	1585	26.2	

RECAPITULATION.

LAUNCH 31	1	213	662	17.5	
LAUNCH 32	1	248	1585	26.2	
GRAND TOTAL.	2	461	2247	43.7	

V.E.C.
Jan. 26, 1910.

HYDROGRAPHIC SHEET NO. 3033.

Vicinity of Portland, Maine, by Assistant W. C. Hodgkins in 1909.

TIDES.

	Little Diamond Island ft.
Mean low water, or plane of reference on staff	1.0
Lowest tide observed " "	-3.0
Highest " " " "	13.9
Mean range of tide	8.9

Coast and Geodetic Survey
JAN 28 1910
TIDAL DIVISION.

Hyd. Sheet #3033 Mar 12, 1910

The work north of Ramsdell, which covers the charted 3½ fath spot about ½ mi east of Whitehead, gives no indication of a shoal at this point. 61 feet was the least water found and the ground was apparently well developed.

The survey west of Diamond Ledge shows practically no change in the depth which can be carried through the channel.

The records were kept in a satisfactory manner.

H R Simons