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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Hyd. Sheet No. *3544*

LOCALITY:

Southeast Alaska
Davidson Inlet
Marble Passage

191

CHIEF OF PARTY:

W. H. ...

11-4645

3544

Descriptive Report

To accompany Hydrographic Sheet No. _____

Resurvey of Marble Passage, Davidson Inlet,

Alaska.

This survey, topographic and hydrographic, was made on a scale of 1-10000.

The hydrography was executed by two parties, the launch and whaleboat, working simultaneously. The whaleboat work was done without a boat sheet.

A tide gauge was established on the Marble Co's. wharf, and continuous observations taken during the entire period of work in this vicinity. Current observations were also taken from the ship at the anchorage. No perceptible current was observed, which is verified by the fact that during the entire time at anchor the ship swung head to wind; never to tide.

As no plane of reference was available, the soundings have not been reduced by the field party.

What appear at first glance to be gaps left in the hydrography will be found to be filled in by the lines of the original survey.

Three dangerous shoal areas were located and developed. These shoals have already been reported in detail (Notice to Mariners, Inspectors Serial No. 11)

A tabular statement of statistics follows.

R. S. Patton
Chief of Party, U.S.G.S.

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Statistics sheet No. _____

Date, 1913.	Letter	Vol.	Posi- tions.	Sound- ings.	Miles statute.	Vessels.
Oct. 17	F	1	171	303	15.5	Launch
Oct. 17	A	1	151	629	11.5	Whale- boat.
Oct. 18	G	1	100	116	2.5	Launch
Total.....	422	1048	29.5	

Soundings in fathoms.

Tide gauge at Quarry Dock.

VEC
Dec. 16, 1913.

HYDROGRAPHIC SHEET 3544.

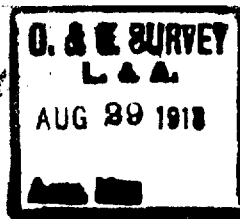
Marble Passage, Gavidson Inlet, Alaska, by
Assistant R. S. Patton in 1913.

TIDES.

	Marble Passage. ft.
Mean lower low water, or plane of reference on staff	2.2
Lowest tide observed " "	1.6
Highest " " " "	13.9
Mean range of tide	8.7

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Place with descriptive report
of hydrographic sheet No. 3544



Hyd. Sheet ~~No. 3544~~ ^{Drainage Section} 44
"Marble Passage, Davidson Inlet, Alaska"

The positions for the work on this sheet were plotted by the field party and have been taken as correct although verified in a few cases to check apparent errors or to locate position for run of line.

The work is good, and when used in connection with the original survey, Sheet No. 2732-1904 appears sufficient to develop this area sufficient for all practical purposes unless penacle rocks should exist in some of the small areas not covered.

The shoal spot N.E. of signal "Pole" might have been further examined as it is the conditions between the 5 foot sounding of this survey and the 18 foot sounding of the original survey, Sheet 2732 are indefinite as to whether this shoal extends South and East from this 5 foot sounding to the rock N.E. of the 18 foot sounding or whether there is a deep between.

The method used on this sheet in designating the positions by small circles instead of the usual ink dot is bad practice and should be discontinued. It is against the rules laid down in "General Instructions, Page 71 Art. 293.

John D. Torrey

Verified;

May 18, 1915
R. L. Johnston