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C. & G. SURVEY,
LIBRARY AND ARCHIVES
JUL 30 1912
Acc. No

Diag. Cht. No. R202-1

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Hyd. Sheet No. **3376**

LOCALITY:

*Off Douglas Id., Gustineau
Channel*

1912

CHIEF OF PARTY:

C. S. Gillian

11-4645

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Sec. No.

Hyd. 3376

COAST AND GEODETIC SURVEY.

O. H. Tittmann, Superintendent.

G A S T I N E A U C H A N N E L .

Examination of the Shore Line between

DOUGLAS and TREADWELL.

Henry Bernhardt, Mate, C. & G.S., Hydrographer.

attached to

C. & G.S. Str. McARTHUR.

C. G. Quillian, Asst., C. & G.S.

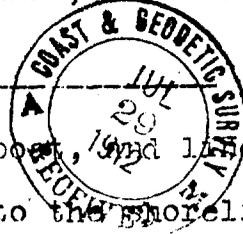
CHIEF OF PARTY.

JUNE 1912.

Scale: 1 - 10,000

Hyd. 3376

Description of hydrography executed by party of the
Steamer "McArthur",
Off Douglas Island, Gastineau Channel, Alaska.
Month of June 1912.



Sounding was done from the "McArthur's" whaleboat, and lines were run approx. north and south at right angles to the shoreline, and approx. 50 to 100 metres apart from low water line to beyond the 10 fath. curve. Lines also were run about 10 metres from face of wharfs and parallel to same. On the day of the "McArthur's" departure from Juneau, two (2) lines were run with the ship in about midchannel approx. 2 miles long. From low water line the depths would increase very rapidly, and sticky mud was the general nature of bottom. Four (4) Dolphins and one (1) Mooring buoy were located by sextant angles. (see Sounding Records)

Tides were read simultaneously while sounding, from staff at Juneau and staff on City wharf near Juneau Island.

Soundings were not reduced, as the plane of reference at Juneau Tidal Station was not known.

Respectfully submitted

Henry Bernhardt, Mate
Hydrographer

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TABLE OF STATISTICS.

to accompany

C. & G. SURVEY,
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Hydrographic Sheet of Gastineau Channel

| Date, 1912. | Letter | Vol. | Positions | Soundings | Miles (Statute) | Vessel |
|-------------|--------|------|-----------|-----------|-----------------|---------|
| June 12 | a | 1 | 49 | 140 | 1.5 | W. Boat |
| 13 | b | 1 | 61 | 231 | 1.5 | " " |
| 15 | c | 1 | 47 | 128 | 1.5 | " " |
| 16 | A | 1 | <u>22</u> | <u>40</u> | <u>4.1</u> | Ship |
| | | | 179 | 529 | 8.6 | |

VEC
Aug. 7, 1912.

HYDROGRAPHIC SHEET 3376.

Gastineau Channel, Alaska, by Asst. C. G. Quillian
in 1912.

TIDES.

| | Juneau ft. | Douglas ft. |
|---------------------------------------------------------|---------------|----------------|
| Mean lower low water, or plane of reference on staff | 9.8 | 9.7 |
| Lowest tide observed " " | 4.3 | 6.0 |
| Highest " " " " | 30.1 | 28.3 |
| Mean range of tide | 13.9 | 13.9 |

RECEIVED
ASSTANT IN CHARGE
AND REFERRED TO
AUG 7 1912
O. S. L. DIV

Coast and Geodetic Survey
AUG 7 1912
TIDAL DIVISION.

Hyd. Sheet No. 3376.

The positions on this sheet were plotted by the Field Party and have been taken as correct although checked in several cases.

The work is good and sufficient to develop the bottom in a general way but for a more perfect development closer lines should have been run and one or more cross line run.

If the wharf inside of Juneau Island is used for vessels additional soundings should have been taken in the vicinity of same.

John D. Torrey.

Sept 28/1912

Verified:

May 19, 1915

R. L. Johnston