



3811

C. & G. SURVEY
L. & A.
JAN 73 1917
Mag. No.

Diag. Cht. No. 8201-2

Form 504
 DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY

State: *Alaska*

11-5013

DESCRIPTIVE REPORT.

Hyd Sheet No. *3811*

LOCALITY:
Summer Strait

1915

CHIEF OF PARTY:
L. O. Collier

3811

U. S. COAST AND GEODETIC SURVEY
Register No. 3811

STATE S. E. Alaska

GENERAL LOCALITY Summer Strait

LOCALITY Labouchere Bay to Pt. Baker

Surveyed by Wire Drag Party No 4

Chief of Party L. o. Colbert, Ass't.

Date June 25 to October 8, 1915

Scale 1: 20,000

DRAG DEPTHS IN FEET
At Mean Lower Low Water.

Protracted by *NR. White* & *P.S. Donnell*

Drag lines inked by *NR. White*

Tides inked by *NR. White*

Verified by

COLOR SCHEME

Red	40 ft.**
Blue	30 - 39
Green	20 - 29
Brown	10 - 19-1/2
Orange	0 - 09-1/2

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Original

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DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

E.Lester Jones
Superintendent

Supplemental DESCRIPTIVE REPORT

To accompany

Wire Drag Sheet No. (2)

Hyd. Sheet No. 3811.

of

SUMNER STRAIT, SOUTHEAST ALASKA,

by

Wire Drag Party No 4

L.O.Colbert, chief of party

1915-1916

Scale 1/20,000

Descriptive Report of Sheet (2,) of 1916 Wire Drag Survey
to accompany report of sheet (2,) Wire Drag Survey of 1915

SUMNER STRAITS, SE ALASKA, vicinity of PT. BAKER.

This area was surveyed by Wire Drag Party No.4 in 1915,
though small unfinished area remained. The work of 1916 was ^{the} covering of
such areas.

Eight of these small areas were dragged, requiring 7 separate
drag strips. The work, as plotted on the boat sheet accompanying this report,
shows that the unfinished areas of 1915 were cleaned up, except for a small
area near Helm Rock. Due to the very strong tide rips and shoals in this
locality, it was not thought practical to drag closer to Helm Rock.
Were it attempted, the Party would likely have lost considerable drag
gear, as was done in 1915, and thus cripple the party for carrying on further
work.

Statistics of Wire Drag Sheet 2, 1916

Day	No Angles	No Miles (Stat.)
A	205	4.6
B	216	4.8

2.5 Sq. Stat. Miles Area

Approved

L.O. Colbert

Assistant C.&G. Survey

Chief of Party

Joachim

Assistant C.&G. Survey

Compiler

#2.

TABLE OF STATISTICS
Hyd. Sheet No. 3811

*To be attached to
Description Report*

Date 1915	Day	Volume.	Angles	Miles run	Drag length	Soundings		Remarks
						Number	Angles	
June 25	A	1	138	2.5	4400 ft.	1	2	
26	B	1	180	6.2	3600			
July 8	C	1	240	6.8	3000			
					3300			
9	D	1	210	6.5	3300+	3	7	
10	E	1	270	10.0	3300	4	8	
12	F	1	332	13.5	5200			
14	G	2	96	1.8	4000	6	12	
15	H	2	234	7.6	5000			
17	J	2	126	3.0	4450	2	4	
19	K	2	162	3.8	4500			
					1600			
20	L	2	144	3.5	2800			
					2850			
21	M	2	226	6.0	2400	3	6	
					2050			
22	N	2	216	4.2	2450			
					1200			
					2100	2	4	
23	P	3	132	2.2	2100	3	7	
28	Q	3	210	3.8	2000	7	16	
Aug 2	R	3	78	1.1	2350			
3	S	3	324	5.5	2400			
4	T	3	378	6.5	2400	2	4	
10	U	3	162	5.0	4000			
17	V	4	138	5.6	5000			
18	W	4	136	5.3	5000			
19	X	4	180	4.0	2500			
20	Y	4	365	7.6	2500			
21	Z	4	180	5.3	2300			
					2500			
24	A'	4	42	0.3	1000			
Sept. 1	B'	4	252	6.3	2400	2	4	
3	C'	5	456	13.0	3000			
4	D'	5	234	7.0	3050			
9	E'	5	36	3.0	5950			
16	F'	5	318	6.5	1600			
					4000			
29	G'	5	180	5.2	4800	2	4	
30	H'	5	120	7.6	4000			
					10850			
Oct. 8	J'	6	150	3.0	2400	3	7	
June 30	Not a Drag Day					2	4	
Totals			6645	181.2	139600	42	89	

Mean length of Drag = 3325 feet

Total Area covered = 62.8 sq. Miles.

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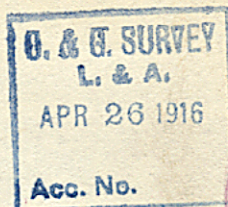
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ADDRESS
U. S. COAST AND GEODETIC SURVEY
WASHINGTON, D. C.

REFER TO NO. 5-VEC

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON



April 22, 1916.



FIELD RECORDS (H) 25

Plan with Descrip Report 3811

Chief, Division of Hydrography and Topography:

I have had revised the tide reducers in 12 volumes of soundings for Hydrographic Sheets 3811 and 3812, Sumner Strait, S. E. Alaska, by party of Assistant L. O. Colbert in 1915.

Attention is called to the following changes due principally to allowances for the difference in tide at the gauge and place of soundings.

Hydro. Sheet 3811, Vol. 1 of Soundings, Pages 2, 10, and 11.

" " 3812, " 1 " " pp. 1, 3, 6, 7, 8, 9, 10, 11, & 13.

Tide notes for Hydrographic Sheets 3811 and 3812 are transmitted herewith.

The original records have been returned to the Archives.

R. Luce

Chief, Section of Tides and Currents.

VEC
Apr. 22, 1916

PS
RFL
HCG

HYDROGRAPHIC SHEET 3811.

Sumner Strait, S. E. Alaska, by party of
Assistant L. O. Colbert in 1915.

TIDES.

	Port Protection ft.	Point Baker ft.
Mean lower low water, or plane of reference on staff	6.0	2.0
Lowest tide observed " "	2.6	0.2
Highest " " " "	21.2	18.0
Mean range of tide	10.4	11.5

Hyd^c 3811.

Sumner Strait, S.E. Alaska.

The area dragged covers a section of Sumner Strait between Pt. Baker and Labouchere Bay.

The original plotting was done by the field party and verified in the office. The work was then systematized and a tracing made, which shows the max. eff. depth, to which the different partial areas have been dragged. The plotting of the skeleton of the drag survey was very carefully and accurately done.

During day "G" stations "Wach", "Win", "Ire", and "Kob" were used. The records do not indicate how and when they were determined. It appears that these stations were not established by cutting in or by a plane table survey, but by transferring a few prominent points from the shoreline of Hyd^c 1755 (Work of 1866). Considerable time would have been saved by inserting a short note opposite the above stations, describing the stations and giving their origin.

At position 29 day "M" the drag set at an eff. depth of 37 feet struck. The shallowest water located by the lead was 34 feet. The next day the above shoal spot was cleared by a 17 foot drag. A development

* Was attempting to avoid 22 ft spot in order to 3811 - 2
drag between Helm Rk and Shoreline, current swept drag
on spot after end of drag had been taken fast and launch was
swinging out to increase width of drag. ~~LO~~

of this region in 1912 disclosed a shoal with 22 feet of
water on it. With this information on hand the party
could have easily ascertained the least water on
this shoal by testing it with a 23'-21' etc. drag.
However, as it stands now, the new work just shows
that there is a shoal with 17 to 34 feet of water over it. *

Helm Rock was approached several times with
a drag of over 50 feet. In 1886 (See Hyd = 1749) a 14 ft.
sounding was obtained and in 1912 the least depth
established by the lead line was 23 feet. Here again
the party had an opportunity to establish definitely
the least depth on the Rock, but left the spot
unsurveyed and unsounded. ^{This rock was marked by a lighted buoy, impossible to drag close to it on acct. of currents. ~~LO~~}

In general, the area surveyed was very well
covered by the drag, and the few splits missed by
the drag are clearly indicated on the tracing.

Throughout the entire work the records were
kept in good shape.

Oct 2 - 1916.

J.P. ShKlen

Hyd 3811 (Work of 1916)

The work of 1916 consists of seven separate
drag strips intended to cover the splits left in the work of
1915. These splits were all covered with the exception of two in
the vicinity of Helm Rock and two a little further south, one of which
was partially covered. The splits are indicated on the tracing

J.P. Bond
Dec 15 - 1917