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Chart 3

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C. & G. SURVEY
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JAN 31 1912
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Diag. ch. No. 8554-1

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Hyd. Sheet No. *3319*

LOCALITY:

*Cool Inlet - West shore -
Tuxedniak & Approaches*

1901

CHIEF OF PARTY:

C. G. Sullivan

3319

Sheet. C.

3319
Hyd. 3319.

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Acc. No.

Department of Commerce and Labor

Coast and Geodetic Survey

O.H. Tittmann, Supt.

Hydrography

of

Tuxedni Harbor, Cook Inlet, Alaska,

by the

party in charge of C.G. Quillian, Asst, C.&G.S.

Steamer "McARTHUR",

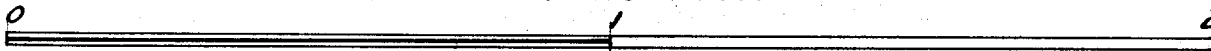
Launch "Delta".

Begun June 21th, 1911.

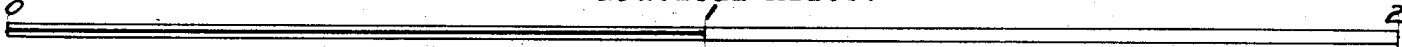
Ended Aug 17th, 1911.

Scale, $\frac{1}{20000}$.

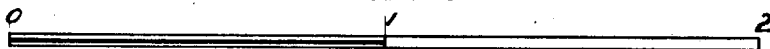
Statute Miles.



Nautical Miles.



Kilometers.



Tide Gauges,

Automatic at Seldovia, Alaska,

Staff Tuxedni Harbor.

scale by SPS

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Observers.

W.S. Keyes Mate, in charge, D.X. Shubin, Aid,
L.M. Fisher, Aid.

Recorders.

D.X. Shubin, Aid, L.M. Fisher, Aid,
C.G. Braunlin, Asst Surgeon.

Leadsman.

J. Collins, Sea, T. Agren, Sea.

Tide observers.

A. Norman, Sea, H. Hubner, Sea, E.A. McCaleb,
Fire 1st class.

Coxswain.

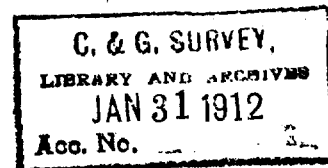
H.T. Martin, M at A.

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3319

Discriptive Report

Hydrographic Sheet No 3319.



Tuxedni Harbor,

scale - 1 - 20000

This sheet covers Tuxedni Harbor with the entrance and inshore soundings around Chisik Island and also shows the northern entrance to the Harbor.

The channel is deep and clean with precipitous banks on each side.

Enter on mid channel courses giving Chisik Island a 1/2 mile berth at south end;. Favor the Chisik Island side after entering and anchor in 17 to 20 fathoms off the Sand spit near the upper end of Chisik Island, sailing directions can be laid from the smooth sheet.

Fair anchorage with, it is reported fewer willows, is to be had close to the Chisik Island side just below the shingle beach in 15 to 17 fathoms.

At this anchorage there is none too much swinging room and the 15 fathom spot is small with a rapid increase to 30 fathoms in the channel. The anchorage is readily identified by the sea fowl which have an extensive rookery along the steep cliff overhanging the anchorage.

Mud flats extend a good distance off the main shore at the head of the harbor and a spit makes out From Fossil Point. (Δ Point)

Good water leads into the Upper Arm which however was not entered by the McARTHUR.

A channel with a depth at M.L.L.W. of 12 feet leads in on the N.W. side of Chisik Island but was not used by the McARTHUR and is not recommended for vessels of over 6 feet draft and then at high water. The saving in distance is small and there is grave chance of striking some boulder in the channel, which was not dragged.

Numerous boulders lie along the flat off the mainland near the channel, and the outer ones, which bared, were located by sextant angles.

For courses, etc, see the sheet.

It is reported that violent williwows come off Chisik Island in the late fall and that a Number of Cannery vessels have lost anchors in the Harbor.

The McARTHUR did not experience any such violent winds during the past season.

Excellent drinking water is to be had from a fall over the cliff between the sand spit and the large conspicuous boulder (6 Tux) at the upper end of the Island.

The Tidal current run fair with the channel and changes from 1/2 to 1 hour after H.W. by the shore. The ebb runs about 2 hours longer than the flood. The maximum Ebb current observed was 2.2 Knots Maximum flood 1.7 Knots.

A Tide staff was maintained at the camp on the sand spit of Chisik Island near signal Edni.

The Harbor is reported to fill with Ice about December 1st. My report was from Mr, W. G. Whorf who wintered

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there one year. He said that the ice was rarely solid across the arms but that the floes were heavy with large bergs and vessels could not enter or approach nearer than a couple of miles from December to March.

The upper arm of the bay shoals up about eight miles above Chisik Island and terminated in a large glacier a few miles further. See the hydrographic and topographic sheets of the Upper Arm.

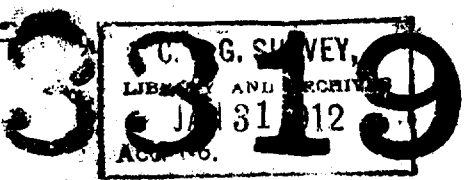
There are no inhabitants near the harbor. A small shanty stands on the sand spit on Chisik Island and it is reported that there is an abandoned ~~tram~~, shanties and a tunnel of a "Get Rich Quick" gold mine in the upper arm. We saw no signs of the later. The Island is conglomerate and there are several large granite cliffs in the upper arm. No signs of mineralization were reported by the party, and nothing heard of prospectors hereabouts in recent years.

There was a large number of Eider ducks in the early summer, all very wild. No Mallards or other desirable wild fowl seen. A few Ptarmigan were seen on Chisik Island and a number around Iliamna.

None of the party bagged ptarmigan or grouse on the flats and the valley reaching toward Mt Iliamna or near the harbor.

Bears were numerous both black and brown and the tracks and signs indicated a large number in all parts of the bays, some of the tracks appeared to have been made by enormous animals.

C. S. Quillen



Hydrography launch "Delta",

1911 Date	Day	Vol	Miles	Angles	Soundings	Sheet
June 21	b	I	6.1	34	118	1:20,000 ^C
22	c	I	3.9	10	25	
23	d	I	1.0	4	13	
24	e	I	2.6	14	55	
26	f	I	2.7	64	183	
26	f	II	5.6	54	174	
27	g	II	2.8	52	62	
28	h	II	0.5	4	16	
29	i	II	3.5	92	55	
29	i	III	7.5	156	108	
July 12	p	IV	11.5	162	252	
18	t	IX	9.7	151	170	
19	u	IX	12.0	205	342	
20	v	IX	26.4	322	1088	
21	w	VI	32.0	356	1623	
26	y	VI	13.0	138	682	
26	y	VII	7.3	92	158	
29	a'	VII	10.5	163	256	
Aug 1	b'	VII	21.5	264	815	
2	c'	VII	19.0	178	503	
2	c'	VIII	14.2	106	377	
8	g'	X	2.2	36	77	
10	h	XI	5.3	52	130	
14	k'	VIII	25.3	334	650	
15	l'	VIII	20.3	227	440	

Soundings counts of sheet Nos. are correct and work on each sheet following system of checking position on plotted surface sheet plotted. Corrections in Red ink plotted on Hyd sheet No. Blue ink.

By B. 4000, C. 2000, D. 4000, E. 4000, F. 4000, G. 4000, H. 4000, I. 4000, J. 4000, K. 4000, L. 4000, M. 4000, N. 4000, O. 4000, P. 4000, Q. 4000, R. 4000, S. 4000, T. 4000, U. 4000, V. 4000, W. 4000, X. 4000, Y. 4000, Z. 4000.

1000 C 2000 1-20000 plotted on Hyd sheet No. 1000 B 2000 1-4000 plotted on Hyd sheet No. 1000 D 2000 1-4000 plotted on Hyd sheet No.

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1911 Date	Day	Vol	Miles	Angles	Soundings	Sheet
Aug 17	<i>m</i>	<i>VIII</i>	0.5	10	27	^c 1:20,000
June 19	<i>A</i>	1 Ships	18.0	64	89	<i>Ship Records plotted on sheets here.</i>
Aug 15	<i>X</i>	4 "	4.0	10	8	
Total			288.9	3354	8496	^c 1:20,000.

Positions checked thus *V* were in red were plotted on sheet C, scale 1:20,000
 by H. K. Schubin, Aid

Positions checked thus *V* in red were plotted on sheet D, scale 1:40,000
 by H. K. Schubin, Aid.

Positions checked thus *V* in blue were plotted on sheet B, scale 1:40,000
 by W. S. P. Keyes, Mate.

MDH

Apr. 8, 1912. HYDROGRAPHIC SHEET NO. 3319.

Cook Inlet, vicinity of Tuxedni Harbor, Alaska,
by Asst. C. G. Quillien in 1911.

TIDES

	Tuxedni Harbor
	ft.
Mean lower low water, or plane of reference on staff	5.1
Lowest tide observed	0.9
Highest tide observed	25.4
Mean range of tide	14.0

Coast and Geodetic Survey

APR 8 1912

TIDAL DIVISION

Hyd Sheet No 3319

Apr 19 1912

The ground within the limits of this survey is well covered.

There were three lines of soundings taken west of the south end of ~~Chick~~ Id the records of which are not in the office and for this reason the soundings are not shown.

H. L. Simons

Verified by J. D. Torrey. 6/25/12