3196

Diag. Cht. No. 8502-1 & 8554-1

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: Alaska

DESCRIPTIVE REPORT.

Hyd *Sheet No.* 3196

LOCALITY:

E. Shore of Cook Inlet

1910

CHIEF OF PARTY:

C. G. Sullivan

B

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Dept of Commerce &
C. & G. Survey
O. H. Tittmann, Supt.

Hydrographic sheet.

E. Shore of Cook Inlet, Alaska,

From E Foreland to The Sisters.

Scale 1-40,000

Survey by party of C&GS Str. Yukon
C.G. Quillian Asst. C. & G. S. Commdg
and Chief of Party.

1910

Smooth sheet partly plotted.

Tide gauges. Chinulna Pt.
maintained by "Yukon" C.G. Quillian Chief of Party
at Seldovia, maintained by
"McArthur" H.L. Beck Chief of Party
at Port Graham, maintained by
"Patterson" W.E. Parker, Chief of Party
Staff at Clam Gulch by C.G. Quillian.
Stoffs at various times south of

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my sheets by Patterson, W E Parker, Cmdg
and early in season north of E Foreland
by McArthur, H.L. Beck, Cmdg

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Dept of Com & Lab
C & G Survey
O. H. Tittmann Supt.

Hydrographic Sheet.

Vicinity of The Sister, Cook Inlet, Alaska.

Scale 1-40 000

Survey by Party B, Str Yukon
C G Reillion
Asst C & G Survey
Chief of Party -

No smooth projection yet made.
Boat sheet. Lower part of large 1-40 000 boat sheet. Line of division shown by red line.

Tide gauge, Clam Gulch.
Seldovia, by H. L. Berk Chief of Party
Pt Graham " W. E. Parker " " "
Chinulna Pt " C G Reillion " " "

Descriptive Report of Hydrographis Sheet No.3196.

The lines which parallel the coast were mostly run with the current. The hand lead was used only for soundings on the sheet.

The area inside The Sisters is very foul. A number of boulders are shown on the sheet but there are many others which bare for a very few minutes at the lowest tides only and are exposed for a very few minutes . The total time exposed would be an hour or so in a month and consequently it was impossible to locate them all . Strangers with shallow draft boats should avoid this area except at half tide o_r over.

There is a dangerous rock with 7 ft at M.LL.W. 1 1/2 miles N.W. from Cape Kasilof. It is indicated by swirls at low water with a strong current.

Kasilof river can be entered by vessels drawing six or seven feet after half tide. All buoys and bushes are to be left to starboard in entering and kept about 15 to 20 yds off. The buoys are made fast to sunken rocks and allowance should be made for an ebb tide in getting too close. The bushes lie on the edge of the deepest channel at low water. Inside the river, the cannery vessels are moored up to the first bend in the river and vessels of six feet do not ground on the lowest tides. The river is narrow and has a very swift current and the channel is obstructed by mooring buoys, steamers ,launches,and scows, above the cannery. There is practically no traffic here excepting that of the cannery. PostOffice is at Kenai and local boats do not call except when having passengers or freight.

The river offers good shelter to small boats in the strong southerly winds and gales. Bottom is soft mud and holds well.

Karluk Reef is a long narrow sand bar four miles N.W. from Kasilof cannery. The six foot curve is about 1 1/4 miles long extending N.N.E. and S.S.W. 2 ft is shoalest sounding obtained and about a mile of its length is bare at the lowest June tide. There is deep water, 30 ft., just inside the reef.

Califonsky shoal (locally so called at Kasilof) has 8 ft M.L.L.W. and lies two miles west of the village of the same name and 1 1/2 miles east of Karluk reef. It was reported that there were boulders on the shoal. The survey did not locate any but with this class of bottom and isolated granite boulders, which are an apparent glacial deposit, so common, with no indications of them, a drag is the only means of feeling sure of locating even the rocks nearly bare at low water.

There are two dangerous boulders two miles apart and three miles off shore four and six miles S.W/ from Kenai Church and with 6 and 4 feet respectively on them. These two rocks are Located as 0 Not by Parker 1910. on the range of Ninilchik Saddle or Camel Mt., just outside of Cape Kasilof as shown below. The coast is foul for a mile offshore between Kenai and Kasilof. There may be other boulders similar to those described above, but The bad swirls were developed and the vessel was in the section at low tide several times. The rock was found to be usually from 20 to 50 yards to windward of the swirls and a vessel should always ~~d/o/d~~ cross swirls in the tideways of the Inlet to the lee side.

The shoals and rocks near Kenai are spoken of in report on sheet 3197.

There is a dangerous shoal with a least found depth of 12 ft at lowest June tides
17 feet, two miles off shore and about three miles S.W. from E.Foreland. The four fathom curve shows a long narrow bank parallel to the coast line.

A couple of five fathom soundings were found three miles west of E.Foreland but the strong tides made it impracticable to develope them. Development could be carried on only near slack water of neap tides and at such times the vessel was unfortunately elsewhere.

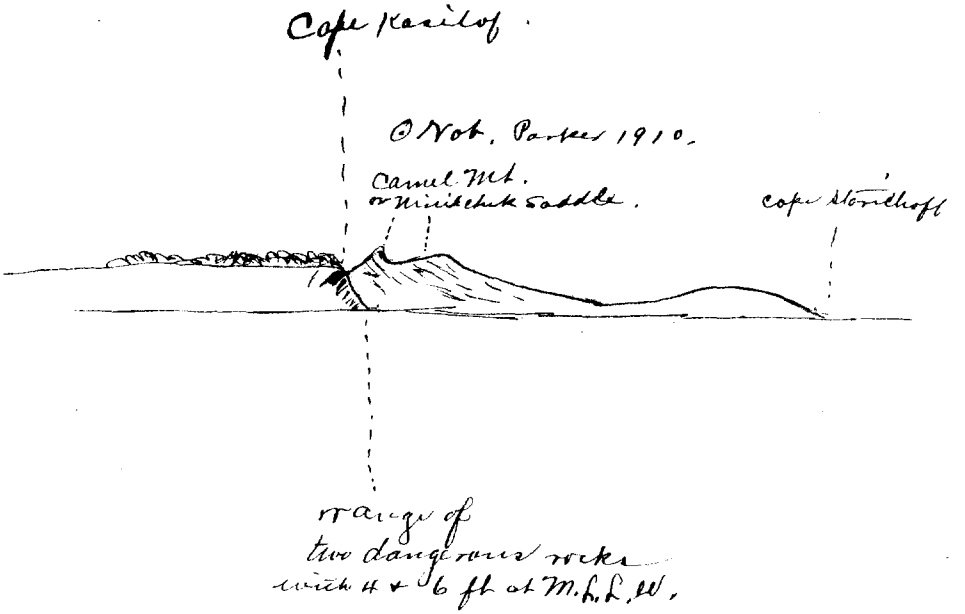
Persons consulting this report should also refer to the season's report of 1910.

Respectfully submitted,

C. G. Quilliam

Assistant, C.& G.Survey,

Chief of Party.



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Sheet A
1-40,000
Eastern Cook Inlet.

date.			letter	Vol	Positions	Soundings	miles statute	Vessel
June 8	1910		A	1	62	300	18.0	ship
" 9	"		B	1	74	341	22.2	"
" 17	"		C	1	8	36	.5	"
" 18	"		D	1	20	80	3.0	"
" 22	"		F	1	11	46	4.5	"
" 24	"		G	1	46	72	3.5	"
" 27	"		H	1+2	93	360	19.0	"
" 28	"		I	2	83	444	22.3	"
" 29	"		J	2	73	386	21.3	"
" 30	"		K	2+3	91	458	28.5	"
July 1	"		L	3	66	369	20.5	"
" 13	"		M	3	119	402	26.8	"
" 14	"		N	3+4	103	234	27.5	"
" 15	"		O	4	162	474	41.5	"
" 16	"		P	4	94	272	31.5	"
" 23	"		Q	4	29	105	2.0	"
" 25	"		R.	4+5	129	538	43.0	"
" 26	"		S	5	110	292	37.0	"
" 27	"		T	5	123	392	28.0	"
" 28	"		U	6	84	202	19.2	"
Aug 5	"	Located rock	V	6	2	2		"
Aug 10	"		W	6	125	650	29.5	"
" 11	"		X	6+7	110	961	49.0	"
Carried forward			23	7	1817	7416	508.3	ship

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Statistics Sheet A 1:40000

Date	Letter	Vol	Positions	Soundings	Miles statute	Vessel
Brought forward	23	7	1817	7416	508.3	ship.
Aug 12 1910	Y	7	175	789	34.8	Ship
" 13 "	Z	7	86	332	21.5	"
" 27 "	AA	8	36	113	8.0	"
" 29 "	BB.	8	103	522	21.5	"
Total.	27	8	2217	9172	594.1	ship

The statistics accompanying, marked "Sheet B" should be incorporated in these statistics R.L.J.

Soundings plotted in feet.

Plotted & inked by H.L.S.
Verified by R.L.J.

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Statistics

Date	Letter	Vol	Positions	Soundings	miles Statute	Vessel.
Aug. 13, 1910	A'	1	25	149	9.0	ship
" 19, "	B'	1	42	158	10.5	"
" 20, "	C'	1	135	558	28.5	"
" 21, 10	D'	1+2	178	806	41.8	"
" 22, "	E'	2	112	322	18.0	"
Total	5	2	492	1993	107.8	ship.

V.E.C.
Jan.25,1911.

HYDROGRAPHIC SHEET 3196.

East Shore Cook Inlet, East Forelands to The Sisters, Alaska, by Asst. C. G. Quillian in 1910.

TIDES.

	Clam Gulch ft.	Chinulna Point ft.	Kenai ft.
Mean lower low water, or plane of reference on staff	1.7	9.3	1.0
Lowest tide observed " "	0.5	4.8	0.7
Highest " " " "	23.5	32.8	23.2
Mean range of tide	17.0	17.7	17.8

Hyd Sheet No 3196 Feb. 15, 1911,

The work is very good but not close enough to cover the ground properly.

The long narrow shoal southwest of S E Foreland and the broken ground north of this shoal should have been more carefully developed.

Where this work overlaps the adjoining sheet on the north the soundings do not agree. The max difference is about ten feet.

H L Simons

Verified ; June 1st, 1911.

R. L. Johnston