DEPARTMENT OF COMMERCE AND LABOR
Coast and Geodetic Survey

O. H. Tittmann,
Superintendent.

State: Alaska.

DESCRIPTIVE REPORT

H Sheet No. 3017.

Locality:

West Coast of Kayak and Wingham Islands.

1909.

Chief of Party:

H. C. Denson.

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET B.

This sheet reaches from the North end of Wingham Island southward to Cape St. Elias. The coast along the west side of Wingham Island is very bold and precipitous, the cliffs being as high as 300 ft. in places. There are several small coves along the island which have a shingle beach but in most places the cliff extends down into the water so that the least sounding obtained at its base was several fathoms.

To the westward of this island the bottom is very regular,- no indication of rocks or shoals was found except close in shore near the north end of the Island. Ships occasionally anchor along the west side of Wingham Island during Easterly gales.

Two dangerous shoals were found about three and one-half miles north north-west of Cape St. Elias. The outer one is two miles off shore, extends in a north and south (mag.) direction and is about one-half mile in length. It is narrow and sharp on top. The least depth found on it was 4 fathoms. No breakers were seen on this shoal during the season. Tide rips occur around it when the wind is against the current. The inner shoal is three and one-half miles north north-west of Cape St. Elias, one mile off shore and the least depth found on it was about eleven feet. It extends in a north and south direction for about one mile. Its top is flat and regular and on this account no further examination of it is believed to be necessary. Breakers were seen on this shoal at low tide when a 5 ft. southeasterly swell was running. To the northward of these shoals the bottom is regular and no indications of shoals were found except close inshore.

A ledge extends northwest from the Pinnacle Rock off Cape St. Elias for about 400 meters. It is completely covered at high tide but breaks in numerous

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places at low tide.

Several sextent cuts were taken to locate the ledges south of Pinnacle Rock. This was breaking for about three-quarters of a mile south of Pinnacle Rock at high tide.

There is a good landing place at the base of the Pinnacle Rock on the northwest side. There is also a good place to land at Cape St. Elias — this place is marked on the Topographic sheet.

A tidal current sets along the west side of Kayak Island parallel to the shore. It flows North at flood and South at ebb. The maximum strength of current is about one-half to three-quarters of a mile off shore except at the shoals off Sig. Egg.

STATISTICS SHEET NO. B.

Date 1909.	Letter.	Vol.	Positions.	Soundings.	Miles Statute.	Launch.
July 28	y	1	107	204	17.	Alpha.
" 31	a'	1	11	20	1.	"
Aug. 2	b'	1	159	264	20.50	"
" 3	c'	2	100	218	14.50	"
" 4	d'	2	90	160	18.	"
" 7	e'	2	115	245	19.	"
" 11	f'	2	100	218	13.	"
" 11	f'	3	65	120	9.50	"
" 13	h'	3	166	457	27.	"
" 19	k	4	134	352	22.	Reynard.
" 20	l	4	102	278	18.	"
" 26	n	4	97	324	16.50	"
" 27	p	5	94	244	14.	"
Sept. 2	r	5	51	119	8.50	"
" 22	c'	5	100	586	14.	"
" 23	d'	6	76	178	15.	"
" 27	f'	6	34	89	2.50	"
" 28	g'	6	66	189	5.25	"
			1667	4259	255.25	

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V.E.C.
Dec.16,1909.

HYDROGRAPHIC SHEET NO. 3017.

Coast of Wingham Island and Kayak Island, Alaska, from Okalee Channel to Cape St. Elias by party of Asst. H. C. Denson, in 1909.

TIDES.

	Kayak Island ft.
Mean lower low water, or plane of reference on staff	4.1
Lowest tide observed " "	8.1
Highest " " " "	16.9
Mean rise and fall of tides	7.7

Coast and Geodetic Survey
Dec 16 1909
Tidal Division

Applied Sept. 12th 1910
A.B.

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DEPARTMENT OF COMMERCE AND LABOR
Coast and Geodetic Survey

O. H. Tittmann,
Superintendent.

State: Alaska.

DESCRIPTIVE REPORT.

Hydo. Sheet No. 2820.

Locality:

Reconnaissance south of Cape St. Elias.

1906

Chief of Party:

H. W. Rhodes.

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