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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. H. Littmann
Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

H. Sheet No. 3018

LOCALITY:

*West Coast of Kayak
and Wingham Islands
Controller Bay - Wingham
Island to Kayak Island*

1909

CHIEF OF PARTY:

H. C. Benson

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DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET, U. S. SURVEY,

Channel South of Wingham Island.

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This channel is not safe for ships except at high tide. The bottom is rocky and irregular and a wire drag is needed to make sure that none of the lumps have been missed.

The shoal one mile south (true) of sig. Pin was carefully developed and a depth found two feet less than that shown on the chart. A shoal one and one-half miles north of sig. Low was developed and also a shoal one-half mile southeast of sig. Pen.

Breakers have been observed at low tide extending nearly all the way across the entrance to the channel from sig. Low to sig. Pin. Ground swells shorten up and become much higher as they enter the channel.

During flood tide the current sets east by north (mag.) at a point south of sig. Pin and northeast at a point south of sig. Pen. The current sets in the opposite directions at these points during ebb tide. It begins to flow out shortly before high water and continues to flow out until low water. The current during ebb tide is much stronger than during flood tide. Tide rips occur in the central part of the channel south of the ledge extending south from sig. Pen when the wind is against the current.

STATISTICS SHEET No. C.

Date 1909.	Let- ter.	Vol.	Posi- tions.	Sound- ings.	Miles Statute.	Launch.
Sept. 2	s	1	111	693	17.	Reynard.
" 6	t	1	111	978	17	"
" 7	u	2	99	783	14	"
" 10	v	2	22	200	3	"
" 13	w	2	38	298	6.50	"
" 14	x	2	42	243	5	"
2 14	x	3	67	420	7.50	"
" 16	y	3	143	1159	20	"
" 17	z	4	97	875	13	"
" 20	a'	4	80	476	10	"
" 21	b'	* 5	86	386	9	"
			<hr/>	<hr/>	<hr/>	
			896	6511	122.	

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* Work for b' day will be found in Vol.# 5 of West Kyak Set. ^(Sheet B)

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Department of Commerce and Labor
Coast and Geodetic Survey
O. H. Tittman, Superintendent,

Hydrographic Survey of Channel between
Wingham Island and Kayak Island, Alaska,
by G. A. Stanton,
H. C. Denson, Chief of Party,
Steamer Patterson
Sept. 2 to Sept. 21, 1909.

Scale $\frac{1}{10000}$.

Photos numbered by G. H. Lawrence

Soundings are in feet

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

HYDROGRAPHIC SHEET NO. 3018.

D. S. Denson
A. 12
12/16/09

Channel between Wingham Island and Kayak Island,
Alaska, by 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 " "	2.1
Highest " " " "	16.9
Mean rise and fall of tides	7.7

Coast and Geodetic Survey
DEC 16 1909
TIDAL DIVISION.

Applied 12/20/10
AE

Hyd Sheet No. 3018.

Feb. 10, 1910.

This survey covers practically the same area as that covered by Hyd Sheet No. 2848 and the soundings agree very well.

The shoal making out from Sig. Low toward the north should have been developed and the development of the shoal, about $1\frac{1}{2}$ miles north of this signal, extended further south to cover the 24 fath. spot.

The records were kept in a satisfactory manner
H. L. Simon