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Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

*O. F. Pittman*  
\* Superintendent.

State: *Alaska*

## DESCRIPTIVE REPORT.

Hydrographic Sheet No. **3691**

LOCALITY:

*Sukhwan Strait*

*1914*

CHIEF OF PARTY:

*F. H. Hardy*

11-4045

3691

DESCRIPTIVE REPORT.

TO ACCOMPANY

HYDROGRAPHIC SHEET No. **3691**

of the

WESTERN APPROACHES TO SUKWAN STRAITS

WEST COAST OF PRINCE OF WALES ID.

ALASKA

Stmr. "GEDNEY"

F. H. Hardy, Asst. Commanding.

September 1914.

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET No. 3691

This sheet covers the western approaches to Sukkwan Straits on the West Coast of Prince of Wales Island. It connects the work of R. B. Derickson, Asst, 1912 in Sukkwan Straits with that ~~of the~~ in Tlewak Straits. The work was not carried south of Carlies Islands nor Eastward into the North Pass of Sukkwan Straits .

All the triangulation stations of Asst. <sup>*E. F. Dickins 1907*</sup> ~~R. B. Derickson~~ in this vicinity were recovered and several intermediate points were cut in with the plane table on this sheet which was then used for the boat sheet. The hydrographic signals are not recoverable with the exception of  $\triangle$  Let, which is the tallest tree on Fort Islet.

Sounding lines were run in a North West  $\triangle$  South East direction, 200 meters apart, and all indications of shoals were developed after the regular system was completed. There is a large shoal about 2200 meters W. N. W. of  $\triangle$  Let on Fort Islet with two pinnacles on it. One has 7 fathoms rocky bottom, and the other 3 3/4 fathoms. On the latter the bottom was hard with a number of small boulders. Between the two pinnacles there was mud bottom in 10 to 12 fathoms. This spot is about 800 meters north of the course taken by the Stmr. "Northland" and other large steamers between Guide Islands and Fort Islet on this <sup>*air*</sup> way into or out of Sukkwan Straits. In this vicinity, two other places were investigated. The first is about 650 meters N. N. W. of the 3 3/4 spot with 18 fathoms over it and the second 600 meters W. N. W. of the spot with 13 fathoms over it.

A seven fathoms shoal was developed 1300 meters E. S. S. of  $\triangle$  Let on Fort Islet and a five fathoms spot was found 700 meters South of this Shoal.

A least depth of 11 fathoms was found about 500 meters West of  $\triangle$

△Times and 10 fathoms 500 meters N. W. of △Hip. A least depth of 15 feet ( reduced approximately) was found on the 4 1/2 fathoms shoal shown on chart No. 8151 about 300 meters S. E. of △Fort and 300 meters S.W. of △Lap.

Four lines of soundings were run in the small bay in which the tide staff was located.

The unsurveyed water south east of the work on this sheet is evidently foul, especially south of △Time . This section however is is not used the by steamers which pass through Sukkwan Straits. Any vessel bound into the straits from the southward should keep well clear of the Corlies Island group. At the entrance to the Straits, Turn Rock and the rocky point Northwest of lone spurce rock on Christmas Island should be favored as they are bold and steep-to.

A special feature of the rocks in this locality is the absense of kelp even at this season of the year when kelp patches in other places are abundant.

Respectfully Submitted.

*L. O. Roberts*

Asst. C. & G. Survey.  
Hydrographer.

Approved;

*S. J. Hardy*

Assistant, C. & G. Survey.  
Commanding Str. GEDNEY.

HYDROGRAPHIC STATISTICS SHEET #3691

Sukkwan Straits, Western Part.

W. Coast, Prince of Wales Id. S.E. Alaska.

Party Str. "GEDNEY" F. H. Hardy, Comd'g.

Date 1914.	Letter	Positions	Soundings	Miles Sta.	Boat.
Sept. 13	a	22	41	3.0	Cosmos
" 17	a	65	132	10.3	Launch 117
" 16	b	111	202	20.0	Cosmos
" 18	b	118	237	13.0	Launch 117
" 17	c	102	184	20.3	Cosmos
" 18	d	176	297	18.5	"
		411	724	61.8	Cosmos
		183	369	23.3	Launch 117
TOTAL.....		594	1093	85.1	

VEC  
Feb 3, 1915  
L. P. S.

HYDROGRAPHIC SHEET 3691.

Western Approaches to Sukkwan Strait, Alaska, by  
Asst. F. H. Hardy in 1914.

TIDES.

	Tide Gauge Bay ft.
Mean lower low water, or plane of reference on staff	8.4
Lowest tide observed " "	5.1
Highest " " " "	24.0
Mean range of tide	10.9

Hyd Sheet # 3691  
Sukkwan Strait Western Entrance "Alaska"

The positions for the work on this sheet were plotted by the field party and as no errors were apparent they were taken as correct.

The soundings were pencil plotted by the field party. This work is good and develops the bottom conditions as to channels and shoals.

J. D. Torrey  
3/16/15

Inshore work not surveyed  
J. D. T.