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U.S. GEOLOGICAL SURVEY.
DEPARTMENT OF COMMERCE AND ARCHIVES
MAR-7 1913
Acc. No.

Diag. Chy. No 8152-1

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Hyd. Sheet Nos *3417*

LOCALITY:

Prince of Wales Passage
Hevak Strait

1902

CHIEF OF PARTY:

R. B. Derickson

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Hydrographic Sheet No. 2

Title : Ilevak Straits, Alaska.
Central portion

Work performed under direction of
R. B. Derickson, Ass't. C & G. Survey
Commanding Str. 'Gedney'

In charge of sounding party: Tho. Jamieson, Mate.

Positions on Smooth sheet plotted by Tho. Jamieson, Mate.

Tide Staff at Kasook Inlet, Automatic Gauge
in Sukkwan Straits.

The following signals in Breezy Bay used
for determining position of sounding ^{Launched} are natural
objects & rather indefinite:

- (1) "F10" Rounding point; extremity near H.W. used.
- (2) "F11" Well defined point, extremity near H.W. mark used.
- (3) "Prom." Prominent rock probably 6 ft high & surrounded
by water at Staff Tide.
- (4) "T11" A small rocky Islet with timber on it; the most
southerly of a group & nearest the S. shore.

The positions of the above objects were taken from
the Plane Table Sheet.

POST OFFICE ADDRESS: 200 Burke Building, Seattle, Wash.

TELEGRAPH ADDRESS: " " " " " "

EXPRESS OFFICE:

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Department of Commerce and Labor

COAST AND GEODETIC SURVEY

U.S.S. GEDNEY.

Seattle, Wash.

February 28th 1913.



To the Superintendent,
Coast and Geodetic Survey,
Washington, D. C.

Sir:-

In regard to the half tide rock one half mile SE of Reef Point, Tlevak Strait, there is a discrepancy of about 100 meters in its position as shown on Mr. Maupins Plane-table Sheet and the smooth hydrographic sheet, as determined by sextant angles in the sounding boat.

I believe the position on the plane-table sheet wrong. There seems to be but one cut to it from the direction of the McFarland Ids. How the distance was obtained I do not know. The sounding lines with positions close to the rock all agree. The position given by the sextant angles recorded in the sounding book all agree with the position transferred from the progress sketch of the triangulation executed in 1906, which proves its correct location on the hydrographic sheet.

Very respectfully,

R. S. Johnston

Asst., Comdg.

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Descriptive Report to accompany Hydrographic Sheet

No.2.

Tlevak Strait, S.E. Alaska.

This sheet continues the work up thru Tlevak Strait to the N.W.; from the limits of sheet No.1 to a line drawn across the Strait S. of Guide Island. A line drawn from the N.W. point of MacFarland Ids. in a N.W. direction thru the Nichols Islands to a Point 1 mile E. of Halibut Nose, forms the Eastern Limit of the work. Owing to lack of time no work was done in Baldy Bay, on the W. side of the Strait.

A deep and clear channel was developed throughout the limits of this sheet. Nearly all this portion of Tlevak Strait was sounded with the "Cosmos" sounding machine and piano wire, the hand lead being used in a few critical places only. No currents of any strength were experienced except in that part adjoining Guide Island, and even there probably at no time exceeded $2\frac{1}{2}$ knots.

A nook in the center of the southernmost of the MacFarland Group, on the S.W. side of same, affords good shelter from S.E. winds to small vessels bound S.E.

The Nichols Islands are foul along their S.E. side and a berth of $\frac{1}{2}$ a mile should be given same.

A dangerous pinnacle having a least depth of ~~19~~¹⁸ feet (reduced) was discovered 1 mile S.E. of Guide Id. approx. and nearly midway on a line joining \triangle Knob and \triangle Hal. This rock is steep-to on all sides and is not marked by kelp.

Breezy Bay and Farallon Bay are not to be recommended as good anchorages on account of the S.E. winds drawing thru them and rendering them extremely uncomfortable. Farallon Bay is the more preferable of the two on account of its moderate depths.

Respectfully submitted,

Thos. Jamieson.

Mate, C. & G. Survey,
Hydrographer.

Approved,

R. B. Almutson

Asst., Comdg.

A large rock awash at half tide lies about 250 yards N.E. $\frac{1}{2}$ E. (Mag.) from the northwestern point of entrance to Farallon Bay. This rock is referred to in the Alaska Coast Pilot, part 1, page 89, as two rocks, but is in reality one large rock. ✓

The work on this sheet is contained in two volumes of sounding records and the plane of reference used for the reduction of soundings, that of Sukkwan.

Scale 1:20000

The sailing directions now published in the Coast Pilot hold good over this body of water.

The position of the rock covered at half tide, $\frac{1}{2}$ mile S.E. of Reef Point and shown on this sheet was determined by sextant angles from the sounding boat alongside. The rock is dome shaped and about 10 meters long, running in an east and west direction. The position ✓

determined by the sounding party agrees with the position transferred
from the triangulation sketch as determined in 1906.

ESD

PLANE TABLE POSITIONS OF SHEET NO. 2.

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Object.	Lat.	D.M.	Long.	D.P.	Remarks.
L11	55° 09'	582.6 1272.9	133° 04'	386.2 676.4	Planetable flag.
Fid	55 09	595.7 1259.8	133 04	30.8 1031.8	Planetable flag.
Sal	55 09	439.8 1415.7	133 05	615.9 446.7	Planetable flag.
Nell	55 08	1115.5 740.0	132 04	190.8 872.3	Planetable flag.
Rip	55 09	1523.8 331.7	133 00	650.4 412.2	Planetable flag.
Ed	55 10	1154.1 701.4	132 00	857.3 204.5	Center of small clump of trees.
Bell	55 10	1415.4 440.1	133 00	99.4 962.3	Half tide rock
Fig	55 09	415.1 1440.4	132 59	995.4 67.2	Planetable flag.
Go	55 09	1098.5 757.0	132 59	736.7 325.5	Planetable flag.
Name	55 12	172.3 1683.2	133 00	884.1 177.2	Tripod, flag and whitewash.
Snipe	55 06	997.3 858.2	132 55	652.7 410.8	Tripod, Banner, flag and whitewash.
Hoy	55 05	1493.9 361.6	133 00	361.8 702.2	Whitewash.
Prado	55 04	1441.9 413.6	132 59	572.7 491.7	Flag & banner.
Grave	55 03	854.1 901.4	132 58	306.0 759.0	Tomb stone
Peg	55 01	1465.7 389.8	132 53	259.2 806.5	Whitewash.

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Table of Statistics to accompany
Hydrog. Sheet No. 2. S.E. Alaska.
Devak Straits. Central portion.

Date 1912	Letter	Vol.	Number Positions	Number Soundings	of Stat. Miles	Vessel.
July	a	1	81	82	17.5	"Cosmos"
August	b	1	72	71	17.3	"
"	c	1	77	107	19.5	"
"	d	1	53	68	13.0	"
"	e	1	71	87	19.0	"
"	f	1	54	74	12.5	"
"	g	1	97	160	23.0	"
"	h	2	98	166	23.5	"
"	i	2	103	167	22.5	"
"	j	2	26	77	5.0	"
September	k	2	33	39	6.25	No. 117
"	k	2	64	113	14.75	Leona

VEC
Mar. 24, 1913.

HYDROGRAPHIC SHEET 3417.

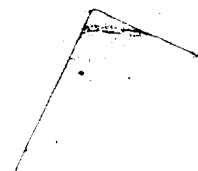
cedi
OR
3/24/13

Tlevak Strait, Alaska, by Assistant R. B. Derickson
in 1912.

TIDES.

	Kasook Inlet ft.	Sukkwan Strait ft.
Mean lower low water, or plane of reference on staff	2.5	9.5
Lowest tide observed " "	0.3	6.1
Highest " " " "	15.8	25.0
Mean range of tide	10.5	10.9

Cast and Sounding Barrow
MAR 24 1913
TIDAL DIVISION



Hyd. Sheet. No 3417

The work on this sheet is very good and the ground has been thoroughly and systematically covered.

A few spots, at which the soundings were slightly indicative of shoals, might have been examined further.

The rock half way between Δ Knob and Δ Hal, is further developed on Hyd 3422, on which the minimum depth, 18 ft., is shown.

Owing to the depth of water on this sheet the soundings have been expressed in fathoms.

R. L. Johnston

verified by J. D. Torrey

The line from pos. 34 K to pos 39 K, inc, was rejected by direction of the Chief Draftsman, on account of bad crossings with the work on the adjoining sheet. (Hyd 3422) The entire line looks to be too far east, but as every position is a "revolver", no adjustment can be attempted.

The work overlapping Hyd 3422, was enlarged and transferred and the curves for the common area drawn from the combined work.

R. L. J.