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U.S. DEPARTMENT OF COMMERCE,
COAST AND GEODETIC SURVEY,
MAR 18 1911
Acc. No. _____

Diag. Ch. No. 8700 & 8551-2

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

H. G. Pattman
Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Hyd. Sheet No. *3576*

LOCALITY:

Popof Island
North Coast

1913

CHIEF OF PARTY:

J. B. Miller

11-4045

3576

DEPARTMENT OF COMMERCE
Coast and Geodetic Survey

O. H. Tittmann, Supt.

ALASKA

Shumagin Islands

ORIGINAL HYDROGRAPHIC SHEET ~~2~~ 3576

POPOF ISLAND, NORTH COAST

Surveyed in August and October by the party on the C. & G. S.

Steamer PATTERSON

1913.

James B. Miller, Assistant, C. & G. Survey, Chief of Party.

George C. Mattison, Aid, C. & G. Survey in charge of hydro-
graphic party.

SCALE 1: 20,000

POSITIONS PLOTTED BY

George C. Mattison

DEPARTMENT OF COMMERCE
Coast and Geodetic Survey/

O. H. Tittmann, Supt.

SOUTHWEST ALASKA

Shumagin Islands

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET NO. ~~2~~. 3576

Surveyed by the Steamer PATTERSON, August - October, 1913.

1. REPORT, LIMITS, SCALE, METHODS, OBSERVER.

I have the honor to report as follows, upon hydrographic sheet No. 2, which shows hydrography on the north and east coasts of Popof Island, Shumagin Islands, Southwest Alaska, as executed in August, September and October, 1913, by a party from the Steamer PATTERSON. The area completed is limited on the west by longitude 160° - 29', on the northeast by a line drawn from longitude 160° - 29', latitude 55° - 25', to longitude 160° - 22', latitude 55° - 23', on the east by longitude 160° - 22' - 15", on the south by Popof Island. A few lines were run along the northeast and east shores of the island. The scale of the sheet is 1:20,000. Launch No. 47 was used. For soundings less than 20 - 25 fathoms, the hand lead was used. For greater depths, the Cosmos Sounding Machine was used, with register attached to the machine. The soundings as read off the dial, should be corrected according to the following table.

Correct Depths with Cosmos Machine and Attached Register.

Machine Reading	Correct Depth.		Machine Reading	Correct Depth.	
	300 on reel	200 on reel		300 on reel	200 on reel
10	11.0	10.5	60	65.4	63.0
20	22.0	21.0	70	76.1	73.5
30	32.9	31.5	80	86.8	84.0
40	43.8	42.0	90	97.4	94.5
50	54.6	52.5	100	108.0	105.0

George C. Mattison, Aid, C. & G. Survey, was in charge of the sounding.

2. DANGERS.

No dangerous shoals were found.

3. CHARACTER OF BOTTOM.

The bottom is all sand, except close inshore, where there are boulders scattered along, in some cases 200 meters off shore. Between

Popof Rock and Pirate Cove, the only clear beach is about midway, at the head of the large, deep bight. Pirate Cove has a rocky shoal, 140 meters north of its southern extremity. There is a rocky ledge running out from the rocky point, on the west side of the entrance to the cove, marked by a scantling placed upright at the outer, or southern limit.

4. ANCHORAGES.

There is a fair anchorage for vessels, in the bight about half way between Popof Rock and Pirate Cove, for southerly winds. Anchor in 7 fathoms in the middle of the bight. Pirate Cove is used by small vessels for anchorage.

5. CURRENTS.

A strong current was observed flowing east and south around High Island, but whether this was tidal in character, could not be determined from the short period of observation from the launch.

Respectfully submitted,

G. C. Mattison

Aid, C. & G. Survey.

APPROVED:

James B. Miller
Assistant, C. & G. Survey,
Chief of Party.

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

At Sea, November 10, 1913.

SHEET NO. **3576** LOCALITY: SHUMAGIN ISLANDS, S. W. ALASKA.

DATE. 1913.	BOAT	LETTER	VOL.	HOURS	POSITIONS	SDGS	MILES (stat.)
Aug. 19	Launch No. 47	a	1	7.0	91	319	20.4
" 25	" "	b	1	5.5	55	169	21.5
" 28	" "	c	1	9.0	101	305	32.1
" 25	" "	d	1	4.0	24	57	11.0
Oct. 9	" "	e	1&2	7.0	46	109	25.3
				32.5	317	959	110.3

Sq. statute Miles: 25

VEC
Mar. 28, 1914.

HYDROGRAPHIC SHEET 3576.

North Coast of Popof Island, Shumagin Islands,
Alaska, by Asst. J. B. Miller in 1913.

TIDES.

	Sand Point ft.
Mean lower low water, or plane of reference on staff	3.5
Lowest tide observed " "	1.6
Highest " " " "	13.1
Mean range of tide	5.1

H. 3576.

Korovin Strait and east side Popof Island. The hydrography Sheet examined in Div. along the east side of Popof Island should be extended and the in-of Hydrog. & Topog. shore work completed, no bottom characteristics.

(Hyd. Sheet No. 3576)

Within the limits of this work, no dangerous shoals were found. The work itself is satisfactory and the records O. K.

R. L. Johnston

Projection was laid down according to Sand Point Provisional datum and should be shifted the below amounts to conform to the Unalaska datum.

North 0."8 (5.5 m) West 38."11 (672.1 m)

See Geog. Pos. (field camp) Paulof Bay, Shumagin Ids. Alaska.
J. B. Miller, 1913. Lib. & Archives acc. no. 68732 2/12/14

Soundings shown in fathoms.

R.L.J.

Protracted by field party.

Plotted and inked by R. L. J.

Verified by J. D. Torrey 11/2/15