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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. H. Tittmann
Superintendent.

State: *Alaska*

DESCRIPTIVE REPORT.

Hydrographic Sheet No. *3713*

LOCALITY:

Shumagin Is.

191*4*

CHIEF OF PARTY:

J. B. Miller
J. G.

11-4045

3713

DEPARTMENT OF COMMERCE

Coast and Geodetic Survey,

O.H. Tittmann, Supt.

ALASKA

SHUMAGIN ISLANDS

Original Hydrographic Sheet No. ~~36~~ 3713

ANDRONICA ISLAND

Surveyed in July, Aug., Sept., and Oct., 1914

by the party on the C. & G.S. Str. PATTERSON.

J.B. Miller, Assist., C. & G. Survey, Chief of Party

G.C. Mattison, Aid, " " in Chg. of sdg. boat

P. Herberger, Mate " " " " "

Scale 1:20,000

Soundings in fathoms at mean low low water

Tide gauge at Pirate Cove

Area 34 sq. stat. miles.

Positions plotted by P.H.

Soundings " " J.S.

DEPARTMENT OF COMMERCE
Coast & Geodetic Survey,
O.H.Tittmann, Supt.

ALASKA: SHUMAGIN ISLANDS.

A descriptive Report on Hydrographic Sheet No. 16.

ANDRONICA ISLAND; 1:20,000.

1. REPORT: LIMITS.

I have the honor to report as follows on hydrographic sheet No.16, ANDRONICA ISLAND, surveyed by the party on the Steamer PATTERSON in 1914. This sheet shows inshore hydrography around ANDRONICA ISLAND; inshore hydrography at CAPE WEDGE, NAGAI ISLAND; inshore hydrography at CAPE DEVINE, KOROVIN ISLAND; and detailed developments at the northern ends of GORMAN STRAIT and WEST NAGAI STRAIT. It joins sheet 7 at GORMAN STRAIT, and sheet 6 at WEST NAGAI STRAIT; and it joins sheet 102 (1:100,000) also. Sheet 102 shows a detailed development northeast and north of ANDRONICA ISLANDS, which connects with it. The sounding party was in charge of G.C.MATTISON, Aid, C.& G.Survey, and PAUL HERBERGER, Mate, C.& G. Survey.

2. METHODS: INTERVALS.

Wherever machine soundings were taken from the sounding launch, the COSMOS machine and revolution counter was used; and such soundings therefore are subject to a correction depending on the amount of wire on the drum: this correction is given by tables submitted with reports on the 1913 sheets. The corrections have been entered and verified in the sounding books. Inshore sounding lines were spaced 1/8 mile apart; offshore lines were spaced 1/3 to 1/4 mile apart in more than 25 fathoms..

3. SEA-BOTTOM: DANGERS.

The sea-bottom shows a uniform slope from shore to deep water; the deepest water on the sheet is about 75 fathoms, at the entrance to WEST NAGAI STRAIT. There are no dangers more than 1/2 mile from shore. CAPE DEVINE is a gray headland 885 feet high,

marking the northwest side of GORMAN STRAIT: its faces are bare precipices. The eastern side of it may be approached within 3/10 mile in 13 fathoms: there are rocks above and below water within 2/10 mile or less from the shore. GORMAN STRAIT is 2-7/10 mile wide and 25 to 40 fathoms deep; but a vessel should keep in the middle of it: there is danger in approaching either shore in bad weather. The shore of ANDRONICA ISLAND is bordered by rocks all round, within 2/10 mile of shore: a vessel should keep 1/2 mile off it, in 10 fms. to 30 fms. The northern point is marked by a wedge of rock 280 feet high 2/10 mile eastward of the point. There is a rock awash at low water 7/10 mile westward from this point, and 4/10 mile off-shore, which is the principal danger in GORMAN STRAIT. Off the western point of the island are two rocks 2/10 mile offshore and 5 feet high. Off the southeast point of the island is a flat islet 22 feet high and 2/10 mile from shore. Temporary anchorage may be found in the bight on the northeast shore of ANDRONICA ISLAND, off the sand beach near the northern point, in 20 fms. 1/2 mile offshore. The HAYSTACKS and the WHALEBACK are described in the report on sheet 6. WEST NAGAI STRAIT is 3-3/10 miles wide and about 50 fathoms deep: a vessel may pass anywhere in it, keeping 1 mile off either shore, to avoid PORPOISE ROCKS, which lie 8/10 mile off NAGAI ISLAND. CAPE WEDGE is the northern point of NAGAI ISLAND: the cape itself is 316 feet high, and the hill 2-1/2 mile southward of the point is 762 feet high. The shore round CAPE WEDGE has a forbidding appearance, with low broken cliffs, and broken rocks along the shore: the shore may be approached within 3/10 mile in 15 fms. to 25 fms., but within 2/10 mile a vessel would be in danger. There is a shoal 2-2/10 miles southwestward of the cape and 6/10 mile offshore, which was examined and a least depth of 14 fms. was found upon it.

4. COURSES.

From a position with KUPREANOF POINT bearing 296° (N84W mag.) 1 mile, steer 237° (S38W mag.) 22-8/10 miles, to the middle of GORMAN STRAIT, and when CAPE DEVINE bears 333° (N46W mag.) 1-4/10 miles, steer 280° (S81W mag.) to KOROVIN STRAIT. Or, from the same position off KUPREANOF POINT, steer 220° (S21W mag.) 24 miles to WEST NAGAI STRAIT, passing 2-3/10 mile off CAPE WEDGE, and when the southern HAYSTACK is abeam 9/10 mile distant, steer 247° (S48W mag.) 14-1/2 miles, with CAPE WEDGE right astern and CAPE UNGA right ahead, to a position off UNGA.

5. CURRENTS: VARIATION.

Currents in GORMAN STRAIT and WEST NAGAI STRAIT flow with the wind and reach a strength of 1-1/2 to 2 knots in strong winds. The magnetic variation in this vicinity was 19° 15' East in 1914.

Respectfully submitted,

James B. Miller,
Assistant, C. & G. Survey,

Chief of Party.

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

Seattle, Feb. 12, 1915.

DATE 1914	BOAT	LETTER	VOL.	HOURS	POSITIONS	SDGS.	MILES (stat)
July 8	Launch 47	a	1	2.5	45	51	11.3
" 10	"	b	1	2.5	47	54	11.2
" 16	"	c	1	3.9	66	82	17.5
" 17	"	d	1	5.3	101	172	21.2
Aug. 5	"	e	1	2.1	44	79	4.2
" 14	"	f	1	2.2	35	54	8.2
" 20	"	g	2	0.7	16	18	2.8
" 28	"	h	2	4.3	51	52	19.0
Sept 4	"	i	2	0.4	9	31	1.5
" 9	" q	k	2	1.1	20	21	4.1
" 23	"	l	2	2.9	53	118	10.9
Oct 14	"	m	2	6.3	104	335	24.9
" 15	"	n	2&3	3.1	49	161	10.4
" 16	"	o	3	3.6	53	101	10.3
" 16	PATTERSON	A	3	1.8	25	57	2.0

42.7 718 1386 159.5

Sq. Statute Miles: 34.1

VEC
Apr. 22, 1915

L. P. S.

HYDROGRAPHIC SHEET 3713.

Nagai Strait, Shumagin Islands, Alaska, by
Assistant J. B. Miller in 1914.

TIDES.

	Caton Cove	Pirate Cove
	ft.	ft.
Mean lower low water, or plane of reference on staff	2.7	2.8
Lowest tide observed " "	0.6	1.6
Highest " " " "	12.0	11.7
Mean range of tide	5.2	5.4

Hyd. Sheet 3713.

This sheet was projected and positions inked and soundings plotted in pencil by field party. The positions were assumed to have been plotted correctly unless sounding lines were found to cross badly.

Practically all rocks shown on this sheet were inked on the sheet by the field party and as only a few of them were mentioned in the sounding records their positions as shown had to be assumed correct. A few rocks awash that were inked on the boat sheet and not shown on the smooth sheet were transferred from the boat sheet to this sheet, these rocks were close shore and constituted no additional dangers of much importance.

The shore line was also inked on the sheet by the field party.

L. E. Bobinger.

Projected and plotted by field party

Verified and inked by L. E. B.

Plotted in Fathouse.

Applied to chit 16556
" to chit 16553

4-16-75
Dec 1977

Hamilton
Martot