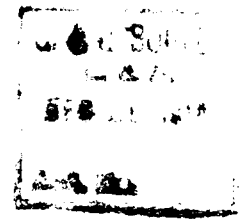




3807



Diag. Ch. No. 8700 & 8859

Form 504
 DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY

State: *Alaska*

11-5813

DESCRIPTIVE REPORT.

Hydrographic No. 3807

LOCALITY:
*Shumagin Islands
 South East Coast
 of Nagai Is.*

1913

CHIEF OF PARTY:
H. C. Benson

3807

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY,
E. LESTER JONES, SUPERINTENDENT.

DESCRIPTIVE REPORT

To accompany

HYDROGRAPHIC SHEET Number ⑨ 3807.

Of the SOUTHEAST COAST OF NAGAI ISLAND;
BENDEL, SPECTACLE, and PENINSULA ISLANDS;
and the Strait West of BIG KONIUJI ISLAND.
- SHUMAGIN ISLANDS, SOUTHWEST ALASKA.

Surveyed during July, August, September and October, 1915.

By Party of U.S.S. PATTERSON

H. C. Denson, Ass't., Commanding

Paul Herberger, Mate, in charge Hydrographic Party

Under Instructions from the Superintendent,

Dated March 18, 1915.

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET NUMBER NINE, of the Southeast Coast of Nagai Island; Bendel, Spectacle, and Peninsula Islands; and the Strait west of Big Koniuji Island, - SHUMAGIN ISLANDS, SOUTHWEST ALASKA.

* * * * *

REPORT, LIMITS, SCALE, METHODS, OBSERVERS.

I have the honor to report as follows on hydrographic sheet No. 9, showing hydrography along the southeast coast of Nagai Island, around Bendel, Spectacle, and Peninsula Islands; and passages between these islands, and Big Koniuji Island, surveyed by the party of the Str. PATTERSON, in 1915.

This sheet connects to the north with sheet No. 7, to the south with sheet No. 8, and shows a complete development of the coast lines of the afore mentioned islands, and the passages between them.

The scale is 1: 20 000, for the main sheet; and there is an enlarged plan of Mist Harbor on a 1: 5 000 scale.

METHODS. Launch No. 47 was used for the work. Sounding lines were spaced 8 to a mile in the average. In bays and anchorages more soundings were taken. Soundings in less than 10 fathoms were taken with the handlead, while deeper soundings were taken with the Cosmos Sounding Machine, with attendant registering sheave for measuring the wire paid out.

A slip of two and a-half fathoms was found on the registering sheave, and a correction of that amount should be added to every machine sounding up to position "155-p day", Aug. 20, 1915, when this registering sheave was exchanged for one that had no correction.

Paul Herberger, Mate, was in charge of the party; R. J. Auld, Aid, observing left angle.

DANGERS. There is an outlying rock (signal "Out"), about 1/4 mile from shore, 15 feet high, with deep water all around it, near the northern limit of this sheet. All along the coast of Nagai Island there are submerged rocks, boulders and pinnacles, none of which are more than 400 meters off-shore.

Near the base of the eastern spit forming Mist Harbor, there is a heavy kelp patch about 1/4 mile off-shore. In any heavy easterly or southeasterly sea, breakers were observed on this patch.

The approaches and entrance to Mist Harbor are clear, and the spits forming Mist Harbor may be approached without any danger.

From Mist Harbor to East Right there are no outlying dangers.

The coast around Bendel Island may be approached within a quarter of a mile; there are several rocks awash within that limit.

The same may be said about Spectacle, Peninsula and Big Koniuji Island.

The passage between Bendel and Turner Islands, show heavy kelp patches in the narrowest part of the passage. The kelp is so dense that it stopped the launch, and sounding lines had to be broken off on account of it.

CHARACTER OF BOTTOM. The bottom around these islands is various, rock prevailing.

ANCHORAGES. Near the northern limit of the sheet there are 2 small bays,

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET NUMBER NINE, of the Southeast Coast of Nagai Island; Bendel, Spectacle, and Peninsula Islands; and the Strait west of Big Koniuji Island, - SHUMACIN ISLANDS; SOUTHWEST ALASKA.

* * * * *

ANCHORAGES (continued)

- which form good anchorages for small and medium sized vessels, giving shelter in southerly, westerly, and northerly winds, though the holding ground may not be ideal.

Mist Harbor, shown on a separate sheet on a scale of 1: 5 000, is formed by 2 long grass spits. The harbor is absolutely landlocked. The western part of it forms a good anchorage for small vessels in 4 to 5 fathoms of water. Bigger vessels will have to anchor in about 25 to 30 fathoms of water. Northerly gales cause very strong williwaws.

Fresh water may be obtained from several small creeks.

There is a good anchorage for small boats near the southern end of Bendel Island. A small off-lying island is connected by a narrow neck of boulders thrown up by the sea, forming a natural breakwater, which is awash at extreme high water. The entrance to the bay is very narrow but is clear. Heavy kelp patches frame it in, but leave a clear space of about 100 meters.

Temporary anchorage may be found in good weather in any of the small bays of Bendel or Spectacle Islands, and in the passages between Turner-Bendel or Bendel-Spectacle.

Near Peninsula Island, a ship may anchor near the end of the long spit. The bights on Big Koniuji are deep, with steep granite cliffs, and not very inviting as anchorages.

All of these anchorages may be entered day and night if ordinary precautions are used.

CURRENTS. Tidal currents are setting thru East Nagai Strait and the passages but are greatly influenced by wind.

*Report written by Paul Herberger, Mate
submitted by H. A. Swan.*

STATISTICS SHEET NO. 9

Date, 1916	Letter	Volume	Positions	Soundings	Miles, stat.	Vessels
August 2	a	1	153	386	22.2	Launch 47
" 3	b	1	11	25	1.5	"
" 4	c	1	169	392	28.0	"
" 5	d	1+2	197	488	29.0	"
" 7	e	2	161	321	25.6	"
" 9	f	2+3	79	111	10.0	"
" 10	g	3	158	556	23.0	"
" 11	h	3+4	169	314	28.0	"
" 12	j	4	62	129	8.0	"
" 13	k	4	87	229	12.0	"
" 14	l	4	19	51	2.0	"
" 17	m	4	148	464	23.0	"
" 18	n	5	167	488	27.0	"
" 20	p	5	155	393	25.5	"
" 23	q	5+6	84	99	16.0	"
" 25	r	6	145	258	27.5	"
" 27	s	6	161	234	30.0	"
" 28	t	7	158	322	27.5	"
" 30	u	7	188	381	34.0	"
" 31	v	7+8	164	404	27.1	"
Sept. 8	w	8	85	151	15.2	"
" 13	x	8	60	97	8.5	"
" 15	y	8+9	151	210	22.8	"
" 16	z	9	173	221	31.5	"
" 17	a'	9	126	191	22.5	"
" 20	b'	9+10	171	376	26.5	"
" 21	c'	10	85	193	11.5	"
" 22	d'	10	17	30	1.5	"
" 30	e'	10	107	314	16.6	"
Oct. 4	f'	10+11	91	127	12.5	"
" 7	g'	11	88	87	15.5	"
<i>Total</i>			3,789	8,042	611.5	

(M.L.W.)
 Soundings in fathoms at mean L.L.W.
 Reference: - Automatic tide gauge at Mist Harbor, Nagai Is.
 Plane of reference = 4.1 ft on gauge.
 Lowest tide observed: July 25, 26 & 27 - 1.5 ft.
 Highest tide observed: Aug. 22 - 12.6 ft. Sept. 22 - 12.6 ft.

VEC
Mar. 18, 1916

RFR
H.C.

HYDROGRAPHIC SHEET 3807.

East Coast Nagai Island, Shumagin Islands, Alaska, by
Assistant H. C. Denson in 1915.

TIDES.

	Mist Harbor ft.
Mean lower low water, or plane of reference on staff	4.1
Lowest tide observed " "	1.3
Highest " " " "	12.7
Mean range of tide	5.1

Applied to compilation 8859 Dec 1942 J.M.A.
Applied to chf 16556 4-20-75 Hamilton