



3809

U. & G. SURVEY  
L. & A.  
FEB 10 1910  
Ann. No.

Diag. Chart No. 8700 & 8859

Form 504

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: *Alaska*

11-5613

DESCRIPTIVE REPORT.

Hydrographic Chart No. *3809*

LOCALITY:  
*Shumagin Islands  
East Coast of  
Nagai Island*

1915

CHIEF OF PARTY:  
*H. C. Benson*

3809

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

DESCRIPTIVE REPORT

To accompany

HYDROGRAPHIC SHEET Number ~~X~~ 3809.

Of the EAST COAST OF NAGAI ISLAND,  
SHUMAGIN ISLANDS, SOUTHWESTERN ALASKA.

Surveyed during July and August, 1915.

Scale 1/20 000

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.

Sheet No. 1,  
Number of Sheets is

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET NUMBER SEVEN,  
of the east coast of Nagai Island, Shumagin Islands, Southwest Alaska.

\* \* \* \* \*

REPORT, LIMITS, SCALE, METHODS, OBSERVERS.

I have the honor to report as follows, upon hydrographic sheet No. 7 surveyed by the party of the steamer Patterson, in 1915, showing hydrography along the East Coast of Nagai Island, Shumagin Islands, Southwest Alaska, as done in July and August.

The limits are as follows; latitude  $55^{\circ} 18'$ , connecting with the work of 1914, on the south  $55^{\circ} 10'.5$ , following the coast line of Nagai Island. Soundings were carried to a distance of one mile off shore. ~~ix~~ At the entrance of Northeast Bight the soundings were extended to a line connecting the north and south headlands.

The scale is 1/20 000.

Launch No. 47 was used for the work; sounding lines were spaced 8 to a mile, in bays and anchorages closer.

The soundings up to 10 fathoms were taken with a hand lead, while deeper soundings were taken with a Cosmos sounding machine with a registering sheave for measuring the wire.  $2\frac{1}{2}$  fathoms have to be added to every reading on the registering sheave as there was a slip of  $2\frac{1}{2}$  fathoms observed.

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

DANGERS. There are many sunken rocks, rocks awash and pinnacles all along the coast but none further out than a quarter mile.

There is a group of rocks in the entrance of the northern part of Northeast Bight, the highest of which show about 8 feet above high water. The submerged part of this reef extends about 200 feet east and west (true) from the highest rock.

CHARACTER OF THE BOTTOM. Close in shore the bottom is found rocky except in some of the bays, where sand, pebbles or mud is found.

ANCHORAGES. Vessels will find good anchorages in any of the 3 little bays forming the northern part of Northeast Bight, good holding ground and protection from all winds except Southeast gales.

In both bays at the south end of Northeast Bight, anchorages may be found in 17 to 20 fathoms of water, but the holding ground is not very good and the strong williwaws make this part of the bay very unpleasant.

All these anchorages may be entered safely day or night if the usual precautions are practised.

In entering the bays of the northern part of Northeast Bight the southern channel should be favored as then the little sugarloaf rock may be approached within a boat length.

CURRENTS. No tidal currents were observed along this part of the coast or in the bays.

Report written by Paul Herberger, Mate  
Submitted by H. A. Swan.

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

STATISTICS SHEET NO. 7

Date, 1916	Letter	Volume	Positions	Soundings	Miles, stat.	Vessels
July 16	a	1	124	136	25.5	Launch 47
" 17	b	1	107	146	19.5	"
" 20	c	1	126	197	20.5	"
" 21	d	2	132	154	29.0	"
" 22	e	2	138	608	17.9	"
" 23	f	2&3	152	160	33.3	"
" 28	g	3	152	158	31.3	"
" 29	h	3	149	185	22.0	"
" 30	j	3&4	160	514	20.5	"
" 31	k	4	66	280	7.9	"
Aug. 1	l	4	19	45	2.1	"
" 3	m	4	61	130	8.0	"
TOTAL			1386	2713	237.5	

SOUNDINGS IN FATHOMS AT MEAN L.L.W.  
Reference: Automatic tide gauge Mist Harbor, Nagai Island.  
Plane of reference: 4.1 feet on gauge.  
Lowest tide observed on July 25, 26, & 27---1.5 feet  
Highest tide observed on July 26---11.9 feet

VEC  
Mar. 18, 1916

MSK  
HCL

HYDROGRAPHIC SHEET 3809.

North East Bight, 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

Hyd. Sheet 3809.

LIBRARY MAR 14 1917

Place with descriptive report  
of hydrographic sheet No.

S.L.R.

Protracted and plotted by Field Party. Verified and inked by S.L.R. Drawing Section.

In verifying this sheet, all the signals were verified, but the positions were assumed to be correct, except that where they looked doubtful they were checked and corrected when found in error.

The survey as a whole was good. The area was well covered, the crossings with two exceptions were close, and the protracting and plotting were carefully done. The recorder neglected to place in the sounding books the time for soundings between positions throughout B, G, K, L and H days and occasionally on other days, thus necessitating the assumption that these soundings were taken at uniform intervals.

As the adjoining sheets had not been completed, comparison with them was left to the draftsman who would complete them.

S. L. Rosenberg  
Mar. 14, 1917.

Soundings in fathoms.

LIBRARY

Place with descriptive report  
of hydrographic sheet No. 3809

S.L.R.

Drawing Section.

Hyd. Sheet 3809

Protracted and plotted by Field Party. Verified and inked by S. L. R.

In verifying it was assumed that the positions were correctly plotted, except that where they appeared at all doubtful they were checked and corrected if found in error.

The survey was a good one. The area was well covered, the records <sup>were</sup> carefully kept and the crossings on the whole were good.

S. L. Rosenberg  
April 1917.

Applied to chrt 16556 4-19-75 Hamilton  
Applied to chart 16553 thru 16556 12/11/79 - Martof