

3998



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

FEB 15 1923

State *A. E. Alaska*

11-5013

DESCRIPTIVE REPORT.

Tofa Sheet No. *D 3998*

LOCALITY:

Ernest Sound

Deer Island -

*Seward Passage
and Approaches*

1922

CHIEF OF PARTY:

G. M. Robinson

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

E. Lester Jones, Director.

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET "D"

Seward Passage, Ernest Sound, S.E. Alaska
Scale 1:20,000

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Season of 1922

Steamer WENONAH

A. M. Sobleralski, H. & G. E., Chief of Party

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Seward Passage, Ernest Sound, S.E. Alaska

Scale 1:20,000

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The work on this sheet was done by A.M. Sobieralski, H. & G. Engineer and W. G. Fielder, Aid. Mr. Fielder surveyed the west coast of Deer Island, and filled in most of the details along the shores of the passage north of Santa Anna.

GENERAL DESCRIPTION:

Eaton Point is bold and steep. But the mountain recede from the shore so that from Watkins Point to the entrance of Santa Anna Inlet, the shore is low, with a number of indentations and projecting ledges and boulders.

Just east of Watkins Point there is a small bay used considerably for an anchorage by fishing boats.

About 1 mile east of Watkins Point there is a hight about 700 meters wide opening northwestward. A large stream has formed a considerable mud flat at the head of this hight. A rocky ledge extends 100 meters northwestward from the point just east of the mouth of the stream.

About $1\frac{1}{2}$ miles eastward of Watkins Point there is a group of rocks and islets. One wooded islet appears to be in mid-channel, and another lies close to shore. A rocky islet covered with grass and bushes, with a ledge extending to the eastward, lies between them. The channel between the islets, while deep, is constricted by ledges, and should be avoided.

The small bay south of this group of islets is foul.

Sunny Bay, 2 miles eastward of Watkins Point, lies between the group of islets mentioned above, and the entrance to Santa Anna Inlet. Four coves branch off from this bay. All of them appear deep, and poor for anchorage.

Santa Anna Inlet extends $1\frac{3}{4}$ miles in a general southeasterly direction. It is 400 meters wide at the entrance but narrows down to 300 meters near the head. The western shore of the inlet is comparatively low and the shore is fringed with ledges and

boulders, while the east shore is bold and steep-to. A stream enters the inlet from a chain of lakes at its head. A considerable waterfall on the eastern side furnishes water power for the cannery located at the head of the inlet. This cannery has not been operated for several years.

From Santa Anna northward to Frosty cove, the shores of Seward Passage are regular and steep-to with numerous small waterfalls. On the east side, about $3/4$ mile northward of the entrance to Santa Anna Inlet, there is a conspicuous cliff about 150 feet high.

Frosty Bay lies 4 miles northward of Santa Anna Inlet, on the east side of Seward Passage. It is approximately one mile long and 350 meters wide. The upper end bares for about 400 meters. The bay is much used for shelter by small fishing boats. Extensive logging operations were once carried on in this vicinity and a logging road terminates at this bay, and there are several abandoned homes there.

Two rocks, bare at half tide, lie about 120 meters northward of the entrance point.

From Frosty Bay northward the shore is steep and practically straight.

Deer Island is about 7 miles long 2 miles wide and 2527 feet high. The eastern shore of the island, forming the western side of Seward Passage, is steep and regular. Near the northern end are several small indentations, all of which are too deep for anchoring.

The northern part of the western side of Deer Island is steep-to, but further south there are numerous islands and rocks with intricate channels among them. The channel between the largest of these islands and Deer Island dries at low water.

Point Peters forming the southern extremity of Deer Id. is low, with ledges extending eastward. Four hundred meters north of Point Peters and 100 meters off shore there is a group of four rocks, the highest of which bares at half tide.

The two islands lying about $1/2$ mile northwestward of Point Peters are separated from Deer Island and from each other by narrow channels, which can be used by launches.

The south shore of Deer Island is low, with numerous ledges and boulders.

A round topped boulder, bare only at extreme low water, lies 100 meters south of triangulation station Iron.

Very little kelp shows on any of the rocks in this vicinity.

FORM LINES:

Every effort was made to secure enough elevations to control the form lines, but in some places it was impossible to secure definite points for the determination of elevations.

The principal features will be briefly described. A mountain chain extends from Eaton Point in a southeasterly direction, separated by a valley about 1 mile wide from a conical mountain located about a mile southeastward of Sunny Bay.

At the head of Santa Anna Inlet there is a chain of lakes extending towards Yes Bay. The range of frowning flat-topped hills on the eastern side of Santa Anna Inlet is cut by several deep canyons. From Santa Anna Inlet northward the country is badly cut up by numerous ranges and hills, which appear to have a general N.W. to S.E. trend. At the head of Frosty Bay there is an extensive valley leading northeastward toward the Anan Lake country.

Northward of Frosty Bay there is a range of hills close to shore, with several narrow gullies cut by mountain streams.

An extensive survey of this district was made in 1922 by the Forestry Service. It is possible that a considerable amount of information for charts may be obtained from this work.

NEW NAMES: *

All the names are taken from charts except the following:

Sunny Bay and Frosty Bay are used locally and are quite generally known.

Lake Helen - this name appeared on an earlier edition of the chart of this section, and is used to describe this lake in several reports issued by Bureau of Fisheries. Several signs around the lake bear this name.

Respectfully submitted,

A. M. Sobieralski

A. M. SOBIERALSKI, H. & G. Engr.
Chief of Party.

* All new names approved, on behalf of Geographic Board?
James W. McCreary
4-25-28

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON May 24, 1923.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 3998

Surveyed in 1922

Instructions dated Feb. 18, 1922.

Chief of Party: A. M. Sobieralski.

Surveyed and inked by A. M. Sobieralski and W. G. Fielder.

1. The records, as well as the plan and character of the work, fulfill the requirements of the General Instructions.
2. The plan and extent of the survey satisfy the specific instructions.
3. The field drafting prescribed by the General Instructions was completed by the field party.
4. The junctions with adjacent sheets are satisfactory.
5. No further surveying is required within the area covered by this sheet.
6. There is an unnecessary profusion of signals on this sheet. Such an excessive number tends to confuse the hydrographers and is likely to lead to errors in identification.

There is doubt regarding the vegetation on some of the elevations that could have been avoided by appropriate notes.

The projection and triangulation points were not verified.

7. The character of the surveying is good and the field drafting is excellent.
8. Reviewed by E. P. Ellis, May 21, 1923.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. "D" 3998

State . . . S. E. Alaska
General locality . . . Ernest Sound
Locality . . . Deer Island, Seward Passage and Approaches.
Chief of party . . . A. M. Sobieralski, H. & G. E.
Surveyed by . . . A. M. Sobieralski, and W. G. Fielder, Aid.
Date of survey . . . 1922
Scale 1 : 20,000
Heights in feet above . Mean Sea Level.
Contour interval 100 . . feet.
Inked by { A. M. S.
 { W. G. F. . . Lettered by . W. G. F.
Records accompanying sheet (check those forwarded): Photographs,
Descriptive report, Horizontal angle books, Field computations,
Data from other sources affecting sheet

Remarks: