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

State: S. E. Alaska

DESCRIPTIVE REPORT.
Topo Sheet No. B 3999

LOCALITY:
Ernest Sound
Eaton Pt.

1922

CHIEF OF PARTY:
A. M. Dobrowski
DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET B.

Steamer WENOMAH.

Season 1922

A. M. Sobieralski, Comdg.
DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET B.

LIMITS

The area bounded by this sheet is contained within the parallels of latitude 55° 46' and 56° 00' North, and meridians of longitude 131° 54' and 132° 08' West. The shore line covered is from a point about two miles west of Sunshine Island in Ernest Sound eastward and northward to Eaton Point and including the whole of Vixen Inlet.

COAST CHARACTERISTICS

The beach is generally flat for the whole area south of the small bay east of Oval Island. North of this bay it is very bold with deep water alongside the shore. West of Vixen Inlet are two high mountain peaks, the eastward one being very sharp, conspicuous, and readily identified. Timber extends upward to about 1800 feet. The summits of the two peaks mentioned are bare. During the time the survey was made these peaks were generally clear. North of Vixen Inlet the terrain is flat with a broad valley extending in a northnortheasterly direction (magnetic) apparently all the way across the Cleveland Peninsula to Behm Canal. Between Vixen Inlet and the small bay east of Oval Island this broad valley is broken only by a low flat topped hill near the small bay. North of this small bay the steep shore rises abruptly to a 2000 foot ridge approximately paralleling the shore. All of the shore on this sheet is densely wooded.

Sunshine Island is a small wooded island 88 feet high at the entrance to Vixen Inlet.

Oval Island has a steep shore, is densely wooded and rises abruptly to a height of 137 feet.

DANGERS

1-1/4 miles west of Sunshine Island and 1/4 mile north of the shore is a detached rock which bares 2 hours after high water.

Midway between Sunshine Island and Vixen Point and about 0.3 mile offshore is a rock which is awash at mean lower low water, with shoal water between it and shore.

From the point ESE of Sunshine Island a rocky ledge runs out for 0.3 mile. It is covered only by the higher high waters, but is not readily distinguished for two hours before and after high water.
NEW NAMES

For the small bay east of Oval Island the name EMERALD BAY is suggested. No information could be obtained from local sources as to a name commonly used. The name suggested is somewhat descriptive; the bay itself is very pleasing in appearance.

SURVEY METHODS

The usual procedure with plane table equipment was followed. No unusual features requiring special treatment were encountered. Control was furnished by several recovered triangulation stations.

COAST PILOT

Good holding ground for anchorage and good shelter can be secured in Vixen Inlet. Entrance to the Inlet should be thru the channel south of Sunshine Island and keeping well over toward the south shore in making the turn around the rounded point on the south. The passage north of Sunshine Island should not be attempted except by very small boats.

Emerald Bay is used by fishing boats for anchorage, but the depths are great where adequate swing room can be found. Its entrance is clear.

Respectfully submitted,

J. D. CRIGHTON
H. and G. Engineer.

Approved,

A. M. SOBIEGALSKI
Chief of Party.
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<th>LONG.</th>
<th>D.P.</th>
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SUPERINTENDENT, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>Position</th>
<th>Method of determination</th>
<th>Charts affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Very Sharp Mountain and Peak</td>
<td></td>
<td>D. M. meters D. P. meters</td>
<td>Approx 987.8 S. E.</td>
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</table>

For Topographic Sheet B.

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.
Chief of Party, A. H. Sobiersalski.

Surveyed and inked by J. D. Crichton.

1. The records, as well as the plan and character of the work, fulfill the requirements of the General Instructions, except that there are not as many determined elevations as specified.

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 number of signals given on this sheet. An excessive number tends to confuse the hydrographers and is likely to lead to errors in identification.

7. The character of the surveying is good and the field drafting is excellent.

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.

Alaska Register No. B 3999

State ... Alaska

General locality ... Ernest Sound

Locality ... Vixon Inlet to Point Eaton

Chief of party ... A. M. Sobieralski

Surveyed by ... J. D. Crichton

Date of survey ... June, 1923

Scale 1-20,000

Heights in feet above Mean sea level

Contour interval 100 feet

Inked by ... J. D. C ... Lettered by ... J. D. C

Records accompanying sheet (check those forwarded): Photographs, ✔ Descriptive report, Horizontal angle books, Field computations, Data from other sources affecting sheet Triangulation data 1916 Descriptions of 6 Topographic Stations.

Remarks: