DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: A. C. Alaska

LOCALITY:
Ernest Round
Hanson Bay and
Vicinity

1922

CHIEF OF PARTY:
A. M. Roberson
DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET A.

Steamer WENOMAH.

Season 1922.

A. M. Sobieralski, Comdg.
LIMITS

The area covered by this sheet is included between Lemesurier Point at the southern entrance to Ernest Sound and a point about two miles east of Union Point, with form lines covering all area which could be seen from the shore line. In the vicinity of Cnslow Point hydrographic signals were located.

COAST CHARACTERISTICS

The shore line of Union Bay is generally precipitous except for the lagoon at its head. Lemesurier Point is low and densely wooded. East of Union Point the beach is rather flat. Fish traps are located 1/2 mile east of Vixen Harbor and 1/4 mile east of Lemesurier Point. East of Union Bay there are several mountain peaks with a broken and rugged terrain between them. A conspicuous valley extends east from the cannery. Above 1700 feet elevation the ridges and peaks are mostly bare of vegetation.

DANGERS

There were no new dangers found.

NEW NAMES

Vixen Harbor is given for the small boat harbor 1/2 mile east of Union Point. This harbor is much used by fishing craft and is well known locally by the name given.

SURVEY METHODS

The survey methods employed were the usual ones for topographic work. Ample control was furnished by recovered triangulation stations.

COAST PILOT

The ship anchorage in Union Bay is an indifferent one. Protection is offered from the south but the bay is exposed to northerly weather. Swinging room is limited in anchoring depths.

Vixen Harbor offers secure anchorage for small boats. It is protected from all directions; holding ground is good. It is much used by small fishing vessels. Good beaches are found here for beaching launches.

The narrow indentation 1-1/2 miles south of Union Point is used by small fishing boats. Protection and holding ground are good, but swinging room is limited.
The entrance to the lagoon at the head of Union Bay bares at low water as shown on this sheet, not as shown on the harbor chart of Union Bay, § 8124. This lagoon offers a possible landing field for airplanes at low water. It is believed that the ground is sufficiently hard for this purpose. Although not to be considered a good landing place it offers the only possibility in the locality.

A cannery is located on the east shore of Union Bay. This cannery has not been operated for several years. The wharf is in a bad state of disrepair and it is not believed to be capable of resisting much strain. Vessels cannot lay at this dock in northerly or westerly weather. Cannery tenders use the first small bight north of the cannery for anchorage.

An area apparently having local magnetic deflection was observed in the vicinity of Union Point.

Respectfully submitted,

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

Approved,

A. M. SOBIERALSKI.
Chief of Party.
<table>
<thead>
<tr>
<th>NAME</th>
<th>MARK</th>
<th>LAT.</th>
<th>D.M.</th>
<th>LONG.</th>
<th>D.P.</th>
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<tbody>
<tr>
<td>Me</td>
<td>Standard Hydrographic Station</td>
<td>55</td>
<td>44</td>
<td>1152.6</td>
<td>132</td>
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December 16, 1922

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></td>
<td>Latitude</td>
<td>Longitude</td>
<td>Datum</td>
</tr>
<tr>
<td></td>
<td>D. M. meters</td>
<td>D. P. meters</td>
<td></td>
</tr>
</tbody>
</table>

There are no landmarks to be given for topographic sheet A.

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.
Department of Commerce
U.S. Coast and Geodetic Survey
Washington  May 24, 1923.

Section of Field Records
Report on Topographic Sheet No. 4000
Surveyed in 1922
Instructions dated Feb. 18, 1922.

Chief of Party, A. M. Sobieralski.

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
only one-half 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 com-
pleted by the field party.

4. The junctions with the adjoining sheets of the recent surveys are
satisfactory. The representation of the rocks lying off Lemley Rock
are not satisfactory. T. 4000, T. 3627 and H. 4253 all agree in show-
ing one rock awash north of Lemley Rock, but H. 1653b (surveyed in 1885)
shows two dry rocks and three sunken rocks north of Lemley Rock. If
the modern surveys show these rocks correctly, then their descriptive
reports should have noted the fact, so that there would have been no
doubt in the mind of the cartographer.

The character of the vegetation on the higher elevations was not
shown on the sheet.

5. No further surveying is required within the area of this sheet,
except to clear up the doubt regarding the rocks north of Lemley Rock.

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

7. Reviewed by E. F. Ellis, May 21, 1923.
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. A 4,000

State . Alaska

General locality . Ernest Sound

Locality . Union Bay and vicinity

Chief of party . A. M. Sobieralski

Surveyed by J. D. Crichton

Date of survey . April, 1932

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, 1916 Description of 1 Topo Station

Remarks: Signals in vicinity of Onslow Island located on this sheet