

G. Z. B. M. 1924  
L. & A.  
FEB 12 1925  
Acc. No.

3999

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

State: *S. E. Alaska*

11-5613

DESCRIPTIVE REPORT.

*Topo* Sheet No. *B* 3999

LOCALITY:

*Ernest Sound*

*Eaton Pt to*  
*Vixen Bay*

1922

CHIEF OF PARTY:

*A. M. Robinson*

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET B.

Steamer WENONAH.

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  $55^{\circ} 46'$  and  $56^{\circ} 00'$  North, and meridians of longitude  $131^{\circ} 54'$  and  $132^{\circ} 08'$  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

*see letter 10/2, 1923  
Eastbury I. G.F.*

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 1600 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 <sup>Emerald Bay</sup> 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 197 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. CRICHTON.  
H. and G. Engineer.

Approved,

  
A. M. SOBIERALSKI.  
Chief of Party.

## PLANETABLE POSITIONS

## TOPOGRAPHIC SHEET B.

NAME	MARK	LAT		D.M.	LONG.		D.P.
		°	'		°	'	
				1261.0			967.8
Mountain Peak	none	55	46	594.4	132	06	77.8
				1386.1			340.9
Waste	Standard Hydrographic Station Mark	55	48	469.4	132	03	704.4
				1777.2			572.3
One	Standard Hydrographic Station Mark	55	47	78.2	132	01	473.4
				338.2			899.7
Hot	Standard Hydrographic Station Mark	55	53	1517.2	132	02	143.3
				736.7			216.1
Wen	Standard Hydrographic Station Mark	55	48	1118.7	132	04	829.2
				1741.2			629.5
Age	Standard Hydrographic Station Mark	55	47	114.2	132	02	416.6



AND REFER TO NO. 4-DEM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON May 24, 1923.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 3999

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 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.
8. Reviewed by E. P. Ellis, May, 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.

Alaska Register No. B 3999

State . . . . . Alaska . . . . .

General locality . . . Ernest Sound . . . . .

Locality . Vixen 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: