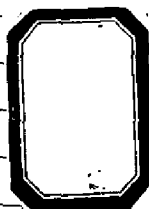


3997



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

C. & G. SURVEY  
L. & A.  
FEB 15 1923  
Acc. No.

State: *S. E. Alaska*

11-5613

DESCRIPTIVE REPORT.

*Topo* Sheet No. *F 3997*

LOCALITY:

*Ernest Sound -  
Brownson Island  
and East Coast  
Etolin Island*

*1922*

CHIEF OF PARTY:

*A. M. Sobierski*

*1  
2  
3  
4*

DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY

E. Lester Jones, Director.

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET 'F'  
Brownson Island, Ernest Sound.  
S. E. Alaska.

Season of 1922

Steamer WENONAH.

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

DEPARTMENT OF COMMERCE  
U.S.COAST AND GEODETIC SURVEY

E. Lester Jones, Director.

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DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET "F"

Brownson Island, Ernest Sound.

Scale, 1 : 20,000

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Season of 1922

Steamer WENONAH.

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

# DESCRIPTIVE REPORT

to accompany

## TOPOGRAPHIC SHEET "F"

Ernest Sound, Stones Islands to Menefee Inlet.  
S. E. Alaska.

Scale 1: 20,000

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### GENERAL DESCRIPTION

The area covered by this sheet includes the easterly shore of Etolin Island from Stones Islands where the work joins that of topographic sheet # 3656 to Menefee Point (south of Menefee Inlet); Canoe Passage; Brownson Island; the Niblack Islands; and the islands lying to the east and southeast of Brownson Island.

Beginning on the southern end of Etolin Island, the first feature is a bay approx. one mile wide and one-half mile deep having an irregular shoreline. Two separate rocks are found in the western half of this bay approx. 300 m. offshore and 600 m. apart. A narrow, steep-to point lies on the eastern shore of this bay. Beyond the point is a smaller bay, approximately one quarter of a mile wide and a half mile deep, with rocks close to its eastern shore. This bay is terminated by a point with a series of small islands lying close together to the S. W. of its extremity. The shore line is ragged but steep-to for two miles beyond this point after which it becomes quite regular and very precipitous thruout the length of Canoe Passage except at points where large streams have piled up small boulder deltas. Menefee Point extends for one and three quarters miles in an easterly direction from the east shore of Etolin Island, forming almost a right angle in the shore line at the end of Canoe Passage. The end of the Point is made up of several small islands lying close together.

Canoe Passage runs north and south between Etolin Island and Brownson Island, but has a sharp turn to the east at its northern end. It is approximately six and one-half miles long in its north and south direction and one and one-half miles long in the easterly direction. At its southern entrance the Passage is a little more than a half mile wide. One mile north of the entrance it narrows to one quarter of a mile, then it gradually narrows until, four and a half miles from the southern entrance it is but 100 m. wide. Its northern entrance is approximately one half mile wide, but this narrows to one quarter of a mile, one and one half miles in, where the Passage turns a sharp right angle to the south. This Passage is most picturesque. It can be used by small boats at high tide only, for the Passage very nearly dries at low water.

Brownson Island forms the eastern shore of Cance Passage. This Island is approximately eight miles long in a north and south direction and varies from  $2\frac{3}{4}$  miles to 1 mile in width. Essentially the island is composed of two mountains approximately 4 miles apart, the valley between these two peaks being very low. An extensive lagoon makes into this valley from Ernest Sound almost cutting the island in two at a point 4 miles from the southern end of the island. Entrance to this lagoon is only possible for a small boat at slack high water. The lagoon has a tidal range of about 4 feet. The shores of Brownson Island are in general steep-to with the exception of the southern shore which is quite ragged with rock ledges extending to the southward.

Niblack Islands are a group of thirteen islands lying 2 miles to the east of Menafes Point. The general trend of the individual islands is north and south. The group occupy a space of approximately  $2\frac{1}{2}$  miles in a north and south direction and 1 mile in the east and west direction. The shores are steep-to with deep water close to shore with the exception of the south-westernmost island of the group which has rocks 200m. off shore to the north of it and more 100 m. off to the S. W. Triangulation station Vag located in 1916 was recovered and located by plane table as no description or position was at hand. The Niblack Islands are used as a fox farm.

A small island lies approximately one mile to the south of the Niblack group. Small, rocky islets are found close to the south west shore of this island.

An island one half mile long and one eighth mile wide lies in a north and south direction one eighth mile east of the easternmost part of Brownson Island. A rock islet is found between the two islands. Approximately  $\frac{1}{4}$  mile south of this small island there is a rock which bares at lower low water.

Approximately  $\frac{3}{4}$  miles south of this small island and a little over  $\frac{1}{2}$  mile off Brownson I. there is an oval island about  $\frac{1}{4}$  miles long. Its shores are very steep-to. A quarter mile east of its northern end are three rocky islets and two rocks, all close together. About  $\frac{1}{4}$  mile farther to the east are three rocks which bare 5 feet at low water. To the westward, approx. on line with the southern end of this island and the southern end of Brownson I., a rocky islet is found about 250 m. off Brownson I.

To the south of Brownson I. lies a group of 4 islands, of about  $1\frac{3}{4}$  miles length in an east and west direction. These islands leave a waterway of about 200 m. to the south of Brownson I. which is clear of dangers. The area to the east and south-east of these islands is foul.

Approximately  $1\frac{1}{2}$  miles south of Brownson I. lies a small island about an eighth of a mile long. Its shores are steep-to. To the S. W. of this island and about 100 m. distant is a rocky islet.

Approximately  $3\frac{1}{4}$  miles S.W. of Brownson I. and  $2\frac{1}{2}$  S E x E of Stones Islands lie two small islands close together, known locally as Peterson Islands. Open water is seen between these islands only in a N E x N direction. The shores of the islands are steep-to.

#### OFF SHORE ROCKS.

A rock baring 14 ft. lies  $2\frac{1}{4}$  miles east of Stones I.;  $1\frac{1}{4}$  miles south of Etolin I.; and 1 mile north of Peterson I.

A rock baring 6 ft. at L.L.W. lies  $3\frac{1}{2}$  miles east of Stones I.,  $1\frac{3}{4}$  miles south east of Etolin I., and  $1\frac{1}{2}$  miles north east of Peterson I.

A rock baring 5 ft. at L.L.W. lies  $1\frac{3}{4}$  miles north east of Peterson I. and  $1\frac{1}{4}$  miles south east of Etolin I.

A rock baring 1 ft. at L.L.W. lies to the east of the north entrance to Canoe Passage. It is 1 mile from Menefee Point, and 1 mile from the nearest Niblack I. An island lies to the north of it about  $\frac{1}{2}$  mile distant.

#### FORM LINES

Every effort was made to determine sufficient elevations for correct placing of form lines. Where elevations could not be obtained, the form lines were sketched to show the trend of the country and dotted on the sheet.

The country is heavily wooded to a height of about 1700 ft.

Mt. Etolin has a conspicuous, sharp, bare rock peak. Mount Shakes has a rounded top of bare rock. Conspicuous bare rock cliffs are seen on the eastern slope of the southernmost mountain on the west shore of Canoe Passage.

#### NEW NAMES

Names used on the sheet and not found on the charts are as follows:

Menefee Point, the name given the prominent point on Etolin I. lying between Menefee Inlet and the Northern entrance to Canoe Passage.

Peterson Islands, the name used locally in connection with the two small islands lying to the south of Etolin Island and to the east south east of Stones Islands.

Respectfully Submitted,

*W. G. Fielder.*

W. G. Fielder, Aid,  
Topographer.

# PLANE TABLE POSITIONS.

Ernest Sound.

Sheet F. 1922.

Object & Description	Latitude	D. M.	Longitude	D. P.	Height	Remarks.
Signal name.						
	°	'	°	'	meters	ft.
Sal	55	55	1768	132 16	386	2 : Sta. mk. set in : outcrop rk.
Tar	55	55	1600	132 15	390	3 : Sta. mk. cemented : into rk.
Camp	55	55	1018	132 10	866	3 : Sta. mk. cemented : into rk.
Lip	55	56	520	132 12	171	2 : Sta. mk. cemented : into rk.
Lab.	55	59	386	132 11	712	1 : Sta. mk. cemented : into rk.
Pon	56	02	440	132 12	640	3 : Sta. mk. cemented : into rk.

ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 4-DFM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
WASHINGTON

March 21, 1923.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 3997.

Surveyed in 1922.

Instructions dated February 18, 1922.

Chief of Party, A. M. Sobieralski.

Surveyed and inked by W. G. Fielder.

1. The records conform to the requirements of the General Instructions.
2. The character and extent of the survey satisfy the General Instructions and the specific instructions.
3. The field drafting prescribed by the General Instructions was completed in the field, the only omission being the failure to verify the projection and triangulation points.
4. The junctions with the adjoining sheets are satisfactory.
5. No further surveying is required within the limits of the sheet.
6. The character of both the surveying and field drafting is excellent.
7. Reviewed by E. P. Ellis, March, 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. "F" 1922. 3997

State . . . S. E. Alaska. . . . .

General locality . . Ernest Sound . . . . .

Locality . . . . Brownson Island . . . . .

Chief of party . . A. M. Sobieralski, H. & G. E. . . . .

Surveyed by . . . W. G. Fielder, Aid. . . . .

Date of survey . . May and June, 1922 . . . . .

Scale . . . . . 1 : 20,000 . . . . .

Heights in feet above . Mean Sea Level . . . . .

Contour interval . 100 . feet.

Inked by . 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: