

3848

U. S. COAST AND GEODETIC SURVEY  
L. O. A.

DEC 19 1921

Form 504

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: *A. E. Alaska*

11-5013

DESCRIPTIVE REPORT.

*Topo* Sheet No. *3848*

LOCALITY:

*Stephens Passage  
Oliver Inlet to  
Young Bay*

*21*  
1921

CHIEF OF PARTY:

*N. H. Hoch*

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Applied to reconstruction of Chart 8235 Jan 12-1940 Chas. R. Bosh, Jr.

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET NO. 2

Limits:

This sheet extends from north latitude 58° 07' to 58° 14' and from west longitude 134° 13' to 134° 44'. On the south side of Stephens Passage it connects with sheet No. 3. at station A OLIVER and extends to A GROUSE, the north entrance point of Youngs Bay. This sheet also includes a short stretch of Douglas Island shore from A DONOUGH to A JUNCO.

GENERAL DESCRIPTION OF SHORE.

At A OLIVER the shore is a steep, rocky bluff which ends abruptly as the point is rounded. From this point to A GROUSE, the signal at the northern limit of this sheet, the shore is mainly level or with a gentle slope. Low tide exposes broad sandy beaches dotted here and there with boulders. Every stream of any size has a sand bar at its mouth, from 200 to 400 meters long.

One mile SW from A OLIVER is an indentation in the shore line known as Olivers Inlet. The entrance is 30 meters wide at low tide, the tide runs strong in both directions and many boulders in the stream bed makes it dangerous for even small boats.

Point Young is a low rounded grass covered point with a pebble covered beach. Just off the point are several pilings the remains of an old fish trap. From Point Young the shore line turns running SW for  $\frac{1}{2}$  mile; here it is a steep rocky cliff and is fringed at a distance of 30 meters with a large kelp bed. A few meters from the end of the cliff the shore changes abruptly and runs south for a mile, forming one side of Auke Cove. A small

rocky island (500 meters across) is connected to the mainland, at low tide, by a sandy spit 230 meters wide forming the other boundary of the cove. The head of Auke Cove is a long narrow strip of sandy beach, in back of which is a large tidal marsh.

Youngs river, a swift, shallow mountain stream, flows into the cove.

From Auke Cove the shore line runs in a westerly direction for 4 miles, then north for 4 miles, forming the boundaries of Young Bay.

The stretch of beach on Douglas Island, from A DONOUGH to A JUNCO is very rocky and steep. There are one or two very short strips of sand beach.

#### LANDMARKS:

Sculi Island, described in coast pilot.

A high cliff with a light scar on the face. The cliff, about 20 meters high<sup>15</sup>, located on the east shore of Young bay about midway between Point Young and the head of the bay. The scar begins 5 meters from the base of the cliff and is 10 meters across. This is easily seen from the middle of the bay.

A small light colored house, on the shore of Douglas Island 840 meters from signal TARGET, in a north westerly direction. House shows well for a distance of 3 to 4 miles.

#### ANCHORAGES:

Young Bay described in coast pilot.

#### INSHORE DANGERS:

The shore SE from A RAIN for a distance of 1 mile, and W of A BIGHT for  $\frac{3}{4}$  mile, is a type of boulder beach especially dangerous for small boats. Large boulders with a few feet of water covering them lay, in some cases as far as 30 meters from the low water line.

The western point of the island at Auke Cove makes off for a distance of 300 meters, at low water. The steep rocky point SW from the island has a reef 200 meters long.

The point at A GROUSE has a reef stretching 250 meters, at low tide. This information was obtained from local fishermen, as I did not have time to finish this point.

SURVEY METHODS:

Points of control were recovered from previous work as follows; triangulation stations, (OLIVER, RAIN, BIGHT, YOUNG, E. BASE, W. BASE, HAWK, GROUSE, SCULL, HILDA, JULBO, DONOUGH) F.S. Borden, 1917.

Several points in the shoreline in Youngs Bay were determined by cuts from Scull Island. These points afforded a good check on the traversing done along this shore.

Remarks:

Owing to the nature of the country in the vicinity of Oliver's Inlet it was found impossible to obtain the required number of points for the determination of form lines. The country is thickly wooded with low hills.

# Plane Table Positions for Sheet 2

Object & Description	Latitude	D.M. Meters	Longitude	D.P. Meters	Height feet.	Remarks
White Scar on Cliff	58° 10'	18	134° 37'	70	33'	Middle of Scar.
Center of Small House	58° 13'	1424	135° 35'	198	30'	Center of Roof.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

September 24, 1924.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 3848

Stephens Passage, Alaska

Surveyed in 1921

Instructions dated February 17, 1921.

Chief of Party, N. H. Heck.

Surveyed and inked by B. H. Rigg.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the survey conform to the requirements of the General Instructions except that there are only about one-third as many determined elevations as are called for.
3. The plan and extent of the survey satisfy the specific instructions, except for the omission of form lines on the south shore of Douglas Island and on the west shore of Young Bay. Also there is a gap between the northwest end of this sheet and the lower end of T. 3681 (Colbert, 1917). Young Creek should have been shown.
4. The quality of the surveying (except the form lines) and field drafting are good, but the work is not satisfactory on account of the omissions noted in the preceding paragraph.
5. Reviewed by E. P. Ellis, September, 1924.

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. **3848**

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

General locality . . **Stephens Passage** . . . . .

Locality . . . . . **Olivers Inlet <sup>to</sup> and Young Bayz** . . . . .

Chief of party . . . **N. H. Heck** . . . . .

Surveyed by . . . . **Benjamin H Rigg** . . . . .

Date of survey . . . **Season 1921.** . . . .

Scale . . . . . **1 to 20,000.** . . . .

Heights in feet above **Mean sea level.** . . . .

Contour interval **100** . . feet.

Inked by **B. H. Rigg** . . . Lettered by **B. H. Rigg.** . . . .

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet . . . . .

Remarks: **Sheet No. 2**