

4173

Form 501  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: SE Alaska

11-5013

DESCRIPTIVE REPORT.

*Topographic* Sheet No. 4173

LOCALITY:

Chichagof I.-W. Coast

Elbow Passage and

Smooth Channel

1925

CHIEF OF PARTY:

A.M. Sobieralski

3  
2  
1  
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DESCRIPTIVE REPORT

to accompany

4173

TOPOGRAPHIC SHEET NO. \_\_\_\_\_

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Smooth Channel - The Gate.

Chichagof Island, S. E. Alaska.

September - October, 1925.

Scale-1:5000

Instructions dated February 4, 1925.

A. M. Sobieralski - - - Chief of Party.

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DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET NO. \_\_

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Smooth Channel - The Gate,  
Chichagof Island, S. E. Alaska.

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EXTENT: This sheet embraces the group of small islands, and parts of Chichagof Island, forming the shores of Smooth Channel, The Gate, and a portion of Elbow Passage.

LAND FORMATION: The land is uniformly low and heavily timbered. The rock met with is partly loose shale and partly a fairly hard trap rock. Many of the islands are connected at low water. The passages between the islands are mostly shallow, so that kelp is found almost everywhere except in the middle of the three channels named.

LANDMARKS: There are no landmarks worthy of note that are not described in the Coast Pilot.

CONTROL: Abundant control by triangulation stations already existing was afforded. Short traverses were run, and a few fixes by graphic triangulation were used. The principal piece of traverse run was between Off and Shale via The Gate and Elbow Passage. No appreciable closure error was obtained. A few sunken rocks were located by rod readings, on a rod held in a skiff.

A beacon was erected (Aco) which, with The Gate Beacon, forms a range line past the sunken rock near the left shore of The Gate. This was built sufficiently substantial to remain some time, or until it could be replaced by the Bureau of Lighthouses. Negotiations looking to this result were entered into with the Superintendent of Lighthouses at Ketchikan, Alaska, by the Chief of Party.

The area between Curt Point and Gray Rock was not carefully examined. It is known that this is a foul area. Elsewhere on the sheet the work can be accepted as final, all features appearing on earlier surveys of this area having been inspected, and represented here in correct form.

GEOGRAPHIC NAMES: The name Twin Island is the only new name used. (name started in 1880)

*Note. — Pilots give same name to island on opposite side of Koyuk B. entrance, 1 1/2 miles SSE. — (L. 103-33.) JV/M*

RECOVERABLE HYDROGRAPHIC SIGNALS:

(Name)	(Lat)	(DM)	(Long)	(DP)	(Description)
Tom	57 35	1134	136 06	67	Peak of Rock
Zu	57 36	656	136 06	494	Point of island.
Hun	57 36	770	136 06	211	Point of island.
Con	57 36	1134	136 06	36	Beacon
Gat	57 36	1290	136 05	990	Beacon.
Aco	57 36	1766	136 05	929	Beacon.
Kis	57 36	1544	136 06	868	Point of island.
Ent	57 36	20	136 07	570	Peak of rock.

Respectfully submitted.

E. B. Roberts

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Jr. H. & G. Engineer.

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.

4173

U. S. Coast and Geodetic Survey.

Register No. 4173

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

General locality . . ~~West Coast of Chichagof Island~~ W. Coast .

Locality . . ~~Smooth Channel - The Gate~~ Elbow Passage and Smooth Channel . . . . .

Chief of party . A. M. Sobieralski . . . . .

Surveyed by . . E. B. Roberts . . . . .

Date of survey . . Season 1925 . . . . .

Scale . 1-5,000 . . . . .

Heights in feet above Mean High Water . . . . .

Contour interval 100 . . feet.

Inked by . . E. B. R. . Lettered by . . E. B. R. . . . . .

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet . . . . .

Remarks: