



3648

C. & G. SURVEY
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Acc. No.

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
State: <u>ALASKA</u>
11-5813
DESCRIPTIVE REPORT.
Topographic Sheet No. <u>3648</u>
LOCALITY:
<u>Prince William Sound</u>
<u>Hawkins Island east of</u>
<u>Canoe Passage, Orca Bay.</u>
<u>1916</u>
CHIEF OF PARTY:
<u>E. E. Smith</u>

3648

Descriptive Report

to accompany

Topographic Sheet of Hawkins Island East of

Canoe Passage, Prince William Sound

Alaska

E. E. Smith Chief of Party

E. S. Walker Topographer

1916

Extent of Sheet:

This sheet embraces that part of Hawkins Island east of Canoe Passage in Orca Bay, Prince William Sound, Alaska, and is a part of the Orca Military Reservation.

Description of Area:

This is a rough mountainous country. The highest point is 2050 ft. The region is generally wooded up to about 1500 ft., and with patches of stunted growth above that. The tops of the mountains are bare.

At the eastern end of this area the mountains rise gradually from the shore, but at the western end the slope is very steep near the southern shore and gradual on the northern.

Description of Coast Line:

That part of the shore line shown dotted is as transferred in the office from previous work and no attempt is made here to describe it.

The shore line shown in full is as surveyed on this sheet.

The shore line on the south side, from the western limits of the surveyed part east to Stump, is steep to and rocky with narrow rocky beach.

The bay west of Stump is shallow.

A little east of Stump the shore line becomes less steep to and rocky. A considerable area of sand and mud flats, adjacent to it, becomes dry at low tide.

The bay west of Grass is shallow and cannot be entered by a row boat at low tide. Its northern shore is fairly steep and rocky, but the western and southern shores are low with gravel beach.

On the northern shore beginning at the eastern entrance to Canoe Passage and extending to, near Beaute is a stretch of smooth gravel beach. At Beaute is a rocky point.

East of Beaute is a small deep bay, whose shores are moderately low and in stretches gravel beach. The rocky shore line shown east of this bay is vertical and about 35 ft. high. The beach is composed of loose rocks of all sizes.

The curved spit east of the 6' rock is composed of shingle and gravel. The bay east of it is shallow.

Cedar Bay is small. At its head is a gravel beach. The inner basin can be entered at about all times, except at or near low water,

by row boat. It is much frequented by salmon during the spawning season.

Between Cedar and Windy Bays the coast is irregular and rocky. There is a large shallow basin with narrow entrance about half way between the two.

The shores of Windy Bay are un-inviting except the large bight, just inside the eastern entrance, where there is a smooth shingle beach.

The stream at the head of Windy Bay is alive with salmon during the spawning season.

East of Windy Bay to station Narrows the shore is , in general, rocky with rocky beach.

About 5 metres west of station Spruce is a light house. The light is a small unwatched flashing light. Just east of this is a small bight with a smooth gravel beach, suitable for small boat landing.

Streams:

The streams in this area are small. However, Salmon use many of them as a spawning ground.

Fresh water can be obtained throughout the summer in all but the smallest streams.

Method of Survey:

The survey was made in the usual way by plane-table. The triangulation stations along the beach were recovered and used to control the work.

Cuts were taken on the mountains from stations along the beach and elevations determined in the field, by computation with the Hypsograph. All elevations obtained are shown on the sheet. Contours were sketched, as they appeared from stations at or near the beach.

Due to the fact that so many days were rainy, misty, and cloudy, fewer elevations were obtained for the control of the sketching than was desired. For this reason the party had to leave the field with the sheet unfinished.

Scale of Sheet= 1:20,000.

Contour interval= 50 feet.

Respectfully submitted by

E. Swalker

Ass't. C. & G. Survey.

Topographer

Plane Table Positions

Marked on sheet "Rock covers at high tide". Located at eastern entrance Windy Bay. It is 150 metres off shore. An instrument can be set up upon it except at or near high tide.

Lat. = 60 34 705 N.

Long. = 145 58 625 W.

Rock on east side Windy Bay. It is at the north entrance of the large bight just inside the bay. It is 20m off shore, and 1' above high tide. It is just large enough to set up on.

Lat. = 60 34 215m.

Long. = 145 58 512m.

Island at west entrance of Windy Bay, marked 5' on topographic sheet. It is 60m off shore and is connected to shore at low tide. It is rocky with a little moss on top. Use the highest point.

Lat. = 60 33 1715m N.

Long. = 145 59 320m W.

Large rock at west entrance Cedar Bay. This is an island at high tide, but a part of the beach at low tide. It is 3' above high tide.

Lat. = 60 33 614m N.

Long. = 146 01 130m W.

Rock, 6', located about one mile west of Cedar Bay. It is at the western end of the long half moon shaped spit in that vicinity, and is connected to the beach at low tide. It is just large enough for a set-up.

Lat. = 60 32 1635m. N.

Long. = 146 02 717m. W.

A rock ledge point 1580m east of station Beaute. It is the first point east of Beaute from which station Reef is visible. The exact point is at the high water line about 6' above it, at the intersection of two gray streaks in the rock ledge. There is just room enough for a set-up.

Lat. = 60 32 910m. N.

Long. = 146 05 330m. W.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

Photographic Reproduction

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.

State, . Alaska

General locality . Prince William Sound, Orca Bay *Orca Military Reservation*

Locality . Hawkins Island east of Orca Bay *Canoe Passage to Observation Rd.*

Chief of party . E. E. Smith

Surveyed by . . . E. S. Walker

Date of survey . . . 1916

Scale 1:20,000

Heights in feet above . mean high water

Contour interval 50 . . . feet.

Inked by E. S. Walker . . Lettered by

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

This is a photographic print of Topographic sheet

The part shown in red was transferred from Topographic Sheet

3642.

Remarks: